



TO AN ABSENT WIFE.

'Tis morn—the sea breeze seems to bring
Joy, health and freshness on its wing—
Bright flowers, to me all strange and new,
Are glittering in the early dew—
And perfumes rise from every grove
As incense to the clouds that move
Like spirits o'er yon welkin clear—
But I am sad—thou art not here!

'Tis noon—a calm unbroken sleep
Is on the blue wave of the deep—
A soft haze, like a fairy dream,
Is floating over wood and stream—
And many a broad magnolia flower,
Within its shadowy woodland bower,
Is gleaming like a lovely star—
But I am sad—thou art afar!

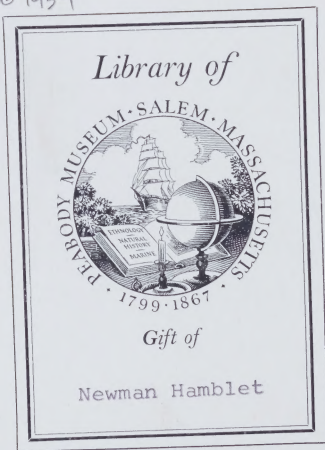
'Tis eve—on earth the sunset skies
Are painting their own Eden dyes—
The stars come down and trembling glow
Like blossoms in the wave below—
And, like some unseen spirit, the breeze
Seems lingering 'mid these orange trees,
Breathing its music round the spot—
But I am sad—I see thee not!

'Tis midnight—with a soothing spell
The far tones of the ocean swell,
Soft as a mother's cadence mild
Low bending o'er her sleeping child—
And on each wandering breeze are heard
The rich notes of the mocking bird
In many a wild and wondrous lay—
But I am sad—thou art away!

I sink in dreams—low, sweet and clear,
Thy own dear voice is in my ear—
Around my neck thy tresses twine—
Thy own loved hand is clasped in mine—
Thy own soft lip to mine is pressed—
Thy head is pillowed on my breast—
Oh! I have all my heart holds dear—
And I am happy—thou art here!

[Louisville Journal.

LOG 1934



Acc. 19, 928

SEA JOURNAL.

JOURNAL OF A VOYAGE

From *Charles Town* to *Pernambuco* in
the *Bark Hull of Boston* commanded
by *John Endicott of Salem*

Begun *Wednesday Dec 12th* 1838 and

terminated *May 12 1839*

1839

In the Ship St Paul began May 25
1839 and terminated April 4 1840

KEPT BY

Augustus Hamblet
of Salem N H



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Observer Press.

Ship *St Paul* from *Salem* towards *Manilla*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|---|
| 1 | | | | | | Shipped on board of the Ship |
| 2 | | | | | | <i>St Paul</i> on Thursday May |
| 3 | | | | | | The 14 th 1838. commenced at date |
| 4 | | | | | | on board on Monday the 20 th |
| 5 | | | | | | employed in taking in freight |
| 6 | | | | | | and provisions. On Tuesday |
| 7 | | | | | | took in the remainder of our |
| 8 | | | | | | freight and got ready for sea. |
| 9 | | | | | | On Wednesday the wind at 10 th |
| 10 | | | | | | ready for sea waiting a gale |
| 11 | | | | | | of Sunday, rainy with the wind |
| 12 | | | | | | to the Eastward and Friday the |
| 1 | | | | | | same as above. Saturday morning |
| 2 | | | | | | at 8 o'clk hauled out from the |
| 3 | | | | | | upper wharf with truck going to |
| 4 | | | | | | other. At 10 th caught a light breeze |
| 5 | | | | | | from the S.W. made sail and |
| 6 | | | | | | passed the fort and sent the Shore |
| 7 | | | | | | gang on shore |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| | | | | | | | | | |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|---------------------|------|--------------------------------------|
| 1 | | | | | | On Saturday May 25 th 38 |
| 2 | | | | | | At 12 o'clk I passed Baker |
| 3 | | | | Light | | Island light house. May be |
| 4 | | | | | | that rules the winds and the waves |
| 5 | | | | | | and holes the water as in the hole |
| 6 | | | | | | below of this hand watch over and |
| 7 | | | | and | | protect us and return us in due |
| 8 | | | | travelling | | time to our families and our friends |
| 9 | | | | at 10 th | | At 8 o'clk discharged the |
| 10 | | | | at 10 th | | Pilot and Mr Ballard a gentleman |
| 11 | | | | at 10 th | | that accompanied us and |
| 12 | | | | at 10 th | | Sarah I was going back with |
| 1 | | | | at 10 th | | them. Employed the lands in |
| 2 | | | | at 10 th | | securing things about rocks and |
| 3 | | | | at 10 th | | working ship. The remainder |
| 4 | | | | at 10 th | | of a deck of Shupparn for |
| 5 | | | | at 10 th | | seizure and ship throughout |
| 6 | | | | at 10 th | | the night strong breeze and foggy |
| 7 | | | | at 10 th | | Weather much very heavy rain |
| 8 | | | | at 10 th | | |
| 9 | | | | at 10 th | | |
| 10 | | | | at 10 th | | |
| 11 | | | | at 10 th | | |
| 12 | | | | at 10 th | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| S 4 E | 80 | 05 | 11 | | 42 28 E | | 1.59 | | 67.02.54 |

1 day out

Ship St Paul from Salem towards Manila

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | | | | | | | | | | | | | | | |
|--|-------|------------|----------|---------------|-------------|--------------------------------------|------------|--------------|------------|------|---------------|-------------|-------------|----------|--------------|--------|----|----|----|-------|---------|----|------------|--|
| On Sunday May 26 th | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | | E 1/2 S | N 1/2 E | | Commences with Light Wind | | | | | | | | | | | | | | | | | | |
| 2 | 2 | | | | | and fine weather. Took in and | | | | | | | | | | | | | | | | | | |
| 3 | 1 | | | | | made sail as occasion required | | | | | | | | | | | | | | | | | | |
| 4 | 1 | | | | | Used the remainder of another | | | | | | | | | | | | | | | | | | |
| 5 | 1 | 1 | E 1/2 S | | | ball of Spinnaker in seizing | | | | | | | | | | | | | | | | | | |
| 6 | 1 | | E 1/2 S | | | on battens. Set footropes, the | | | | | | | | | | | | | | | | | | |
| 7 | 3 | 1 | | | | main top sail, &c. | | | | | | | | | | | | | | | | | | |
| 8 | 1 | | | | | about barrel of both a cask of bread | | | | | | | | | | | | | | | | | | |
| 9 | 2 | | E 1/2 S | South | | 4 fortnight ago to night I | | | | | | | | | | | | | | | | | | |
| 10 | 2 | 1 | | | | was a steering across this bay | | | | | | | | | | | | | | | | | | |
| 11 | 3 | | E 1/2 S | | | with the Wind to the South | | | | | | | | | | | | | | | | | | |
| 12 | 4 | | E 1/2 S | | | West expecting to be at home on | | | | | | | | | | | | | | | | | | |
| 1 | 1 | 1 | | | | the next day and happy then | | | | | | | | | | | | | | | | | | |
| 2 | 1 | 1 | | | | was I. And here I am again | | | | | | | | | | | | | | | | | | |
| 3 | 1 | 1 | | | | a steering across the bay again | | | | | | | | | | | | | | | | | | |
| 4 | 1 | 1 | | | | bound out on a 12 moon. This voyage | | | | | | | | | | | | | | | | | | |
| 5 | 1 | 1 | | | | after being at home fourteen days. | | | | | | | | | | | | | | | | | | |
| 6 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 3 | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 1 | | E 1/2 S | | | | | | | | | | | | | | | | | | | | | |
| 11 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>Course.</th><th>Dist.</th><th>Diff. lat.</th><th>Dep.</th><th>Lat. by D. R.</th><th>Lat. by Ob.</th><th>Diff. Long.</th><th>Long. M.</th><th>Long. by Ob.</th></tr><tr><td>N 54 E</td><td>47</td><td>24</td><td>39</td><td></td><td>42 52 E</td><td>45</td><td>68 58 9.24</td><td></td></tr></table> | | | | | | | Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Diff. Long. | Long. M. | Long. by Ob. | N 54 E | 47 | 24 | 39 | | 42 52 E | 45 | 68 58 9.24 | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Diff. Long. | Long. M. | Long. by Ob. | | | | | | | | | | | | | | | | |
| N 54 E | 47 | 24 | 39 | | 42 52 E | 45 | 68 58 9.24 | | | | | | | | | | | | | | | | | |
| On Monday May 27 th | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | | E 1/2 S | S 1/2 E | | Commences with Light Wind | | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | | and Fine Weather. At 6 P. M. | | | | | | | | | | | | | | | | | | |
| 3 | 1 | | | | | tacked Ship to the Southward | | | | | | | | | | | | | | | | | | |
| 4 | 1 | | | | | at 9. Squally took in the Light | | | | | | | | | | | | | | | | | | |
| 5 | 1 | | | | | Sails and tacked to the Eastward | | | | | | | | | | | | | | | | | | |
| 6 | 1 | | | | | Throughout the night Light rain | | | | | | | | | | | | | | | | | | |
| 7 | 1 | | | | | and foggy. At 9. At 11 saw a | | | | | | | | | | | | | | | | | | |
| 8 | 1 | | | | | refell off the Sea beam. | | | | | | | | | | | | | | | | | | |
| 9 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 1 | | | | | Who would not be a sailor? | | | | | | | | | | | | | | | | | | |
| 2 | 1 | | | | | Who would not sell a farm and | | | | | | | | | | | | | | | | | | |
| 3 | 1 | | | | | go to Sea? To be away from home. | | | | | | | | | | | | | | | | | | |
| 4 | 1 | | | | | Society, Friends, and to give | | | | | | | | | | | | | | | | | | |
| 5 | 1 | 1 | E 1/2 S | S 1/2 E | | indence, and be confined in a | | | | | | | | | | | | | | | | | | |
| 6 | 1 | 1 | | | | floating prison for 10 or 12 mo | | | | | | | | | | | | | | | | | | |
| 7 | 1 | 1 | | | | onths and then to return home | | | | | | | | | | | | | | | | | | |
| 8 | 1 | 1 | | | | for as many days just long ena | | | | | | | | | | | | | | | | | | |
| 9 | 1 | 1 | | | | ugh to reach it in unpleased | | | | | | | | | | | | | | | | | | |
| 10 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th>Course.</th><th>Dist.</th><th>Diff. lat.</th><th>Dep.</th><th>Lat. by D. R.</th><th>Lat. by Ob.</th><th>Diff. Long.</th><th>Long. M.</th><th>Long by Ob.</th></tr><tr><td>N 84 E</td><td>77</td><td>08</td><td>28</td><td>43.01</td><td>43.11</td><td>10</td><td>147 28 37</td><td></td></tr></table> | | | | | | | Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Diff. Long. | Long. M. | Long by Ob. | N 84 E | 77 | 08 | 28 | 43.01 | 43.11 | 10 | 147 28 37 | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Diff. Long. | Long. M. | Long by Ob. | | | | | | | | | | | | | | | | |
| N 84 E | 77 | 08 | 28 | 43.01 | 43.11 | 10 | 147 28 37 | | | | | | | | | | | | | | | | | |

3 Day out

Ship *St Paul* from *Salem* towards *Manilla*
Monday 28 May 1838

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | On | Thursday 28 May 1838 | | |
|---------|-------|-------|------------|----------|--------------|---|--------|----------------------|----------|--------------|
| 1 | 4 | | SE 1/2 E | SE 1/2 E | 1/2 | Commenced with light winds | | | | |
| 2 | 4 | | SE 1/2 E | | | from SE 1/2 E and thick squally weather | | | | |
| 3 | 3 | | | | | | | | | |
| 4 | 3 | | E 1/2 S | SE 1/2 E | | then off 2 P.M. passed a fishing | | | | |
| 5 | 2 | 1 | | | | smack | | | | |
| 6 | 2 | 1 | | | | | | | | |
| 7 | 1 1/2 | | South | ESE | | | | | | |
| 8 | 1 | | | | | middle and latter parts the same | | | | |
| 9 | 1 | | | | | as above. Squid employed in putting | | | | |
| 10 | 3 | 1 | ESE | South | | ing on Chaffin gear | | | | |
| 11 | 6 | | | | | | | | | |
| 12 | 6 | | E 1/2 S | | | business to leave. And an unpleasant | | | | |
| 1 | 6 | | | | | business have we heard of it | | | | |
| 2 | 6 | | | | | since we left. For it has been getting | | | | |
| 3 | 6 | | | | | ing but continued squalls and thick | | | | |
| 4 | 6 | | | | | foggy weather since we sailed off | | | | |
| 5 | 6 | | E 1/2 S | | | pleasant month. indeed, is this | | | | |
| 6 | 6 | | | | | merry month of May. Fine then | | | | |
| 7 | 6 | | | | | then for Young Ducks, but not | | | | |
| 8 | 6 | | | | | very fine for Young Sailors | | | | |
| 9 | 6 | | | | | Reicher. I will run in at the Bay if it | | | | |
| 10 | 6 | | SW 1/4 SE | | | | | | | |
| 11 | 6 | | | | | | | | | |
| 12 | 6 | | | | | | | | | |
| Course. | | Dist. | Diff. Lat. | Long. | Lat. by DeR. | Lat. by Ob. | Varia. | Diff. Long. | Long. by | Long. by Ob. |
| S 17 W | | 120 | 1.54 | 55 | 41.54 | 40 00 | 12 | 48 | 106 44 | 106 44 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | On | Thursday May 28 | 1838 | |
|---------|----|-------|------------|--------|---------------|--------------------------------------|--------|-----------------|----------|--------------|
| 1 | 6 | 1 | SW | SE | 1/2 | Commences with thick rainy | | | | |
| 2 | 6 | | | | | weather. At 11 P.M. set Light Sails | | | | |
| 3 | 6 | | | | | At 2 P.M. set Top Gall Sails and | | | | |
| 4 | 6 | | SW | | | Double reefed the Topsails. At 4 | | | | |
| 5 | 6 | | | | | furled the Top & Main sail. | | | | |
| 6 | 6 | | | | | At 8 shook & reefed out of the Top | | | | |
| 7 | 6 | | | | | sails and set the Top chainsail & | | | | |
| 8 | 6 | | | | | Spinnaker & fore Sheet | | | | |
| 9 | 6 | | | | | At 12 the mainy shook out all reef | | | | |
| 10 | 6 | | | | | and set the Mizzen Top Gall Sail | | | | |
| 11 | 6 | | | | | | | | | |
| 12 | 6 | | | | | | | | | |
| 1 | 8 | | | | | | | | | |
| 2 | 8 | | | | | | | | | |
| 3 | 5 | | | | | | | | | |
| 4 | 6 | 1 | SW | SE | | There was (as I thought) some | | | | |
| 5 | 5 | 1 | | | | bit of fine weather this forenoon | | | | |
| 6 | 5 | 1 | | | | so I got up my wet dunnage (clothes) | | | | |
| 7 | 5 | | SW | | | to dry and they just got them wet | | | | |
| 8 | 5 | | E 1/2 S | | | turning up when it thickened up | | | | |
| 9 | 3 | | | | | again and so it was like those | | | | |
| 10 | 3 | | | | | down and let them lay for the | | | | |
| 11 | 2 | | | | | | | | | |
| 12 | 2 | 1 | | | | | | | | |
| Course. | | Dist. | Diff. Lat. | Long. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by | Long. by Ob. |
| S 88 E | | 85 | 1.54 | 55 | 42.53 | 40 00 | 12 | 2.09 | 108.28 | 108.28 |

Thursday
works as above

Friday
works as above

Ship *St Paul* from *Saline* towards *Manilla*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | |
|---------------|------------|-------------|---------------|---------------|-------------------------------------|-------------------------------------|-------------|--------------|--------------|
| 1 | 2 | | <i>S 68 E</i> | <i>West</i> | | Commenced with Light Winds | | | |
| 2 | 2 | | | | and thick weather. Put all up | | | | |
| 3 | 4 | | | | At 4 P.M. set Star & Studding Sails | | | | |
| 4 | 4 | | | | At 4 P.M. set Star & Studding Sails | | | | |
| 5 | 3 | | | | Hands employed in putting on | | | | |
| 6 | 3 | | | | Chafins gear fitting mast for the | | | | |
| 7 | 4 | 1 | | | Gallies &c. Spanners are used | | | | |
| 8 | 4 | 1 | | | for securing on Portlock Staves | | | | |
| 9 | 5 | | | | batheens &c | | | | |
| 10 | 5 | 1 | | | | | | | |
| 11 | 5 | 1 | | | | | | | |
| 12 | 5 | | | | | | | | |
| 1 | 5 | | | | | next fair day. Sunday. Fine & | | | |
| 2 | 5 | | | | | other once more and with it comes | | | |
| 3 | 6 | 1 | | | | thoughts of home, which make it | | | |
| 4 | 6 | | | | | unpleasant, by imagining to sup- | | | |
| 5 | 6 | | | | | pose what I should be and how high- | | | |
| 6 | 6 | | | | | ly employed if it was this. Saw | | | |
| 7 | 6 | | | | | in Buzorg standing on the S.E. and | | | |
| 8 | 6 | 1 | | | | telegraphed the Ship Geneva & | | | |
| 9 | 6 | | | | | | | | |
| 10 | 6 | | | | | | | | |
| 11 | 6 | | | | | | | | |
| 12 | 6 | 1 | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Var. | Diff. Long. | Long. in. | Long. by Ob. |
| <i>S 68 E</i> | <i>111</i> | <i>1.43</i> | <i>42</i> | <i>41.15</i> | <i>41.06</i> | <i>12</i> | <i>0.56</i> | <i>123.2</i> | |

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | |
|---------|-------|------------|--------|-------------------------------------|--|------|-------------|-----------|-------------|
| 1 | 5 | S 66 E | N W | | Commenced with moderate breeze | | | | |
| 2 | 6 | | | from N.W. at 12 noon exchanged | | | | | |
| 3 | 6 | | | signals with the Ship Geneva & | | | | | |
| 4 | 6 | | | Swallowing port standing on a ridge | | | | | |
| 5 | 6 | | | At 2 P.M. set Star & Studding Sails | | | | | |
| 6 | 6 | 1 | 1 | | in the Light Sails | | | | |
| 7 | 6 | | | | | | | | |
| 8 | 6 | | | | | | | | |
| 9 | 6 | | | | | | | | |
| 10 | 6 | | | | | | | | |
| 11 | 6 | 1 | 1 | | of Sableburg port showed our num- | | | | |
| 12 | 6 | | | | bers and if she means them out | | | | |
| 1 | 7 | | | | which I am in hopes she will, we | | | | |
| 2 | 7 | | | | shall soon be reinforced in the Saline | | | | |
| 3 | 7 | | | | papers. God speed her | | | | |
| 4 | 7 | S W East | 1 | | At 11 A.M. a gale sprung the Top | | | | |
| 5 | 7 | | | sail and forced the Foremast down | | | | | |
| 6 | 7 | | | and At 12 meriting C. Long saw | | | | | |
| 7 | 7 | | | the Topsails and Spanker and forced | | | | | |
| 8 | 7 | | | the Foresail. Ended the day with | | | | | |
| 9 | 7 | 1 | 1 | | very heavy gales from the S.E. and R. | | | | |
| 10 | 7 | | | | and by looking weather | | | | |
| 11 | 7 | | | | opened a Barrel of Pick | | | | |
| 12 | 7 | | | | | | | | |
| 1 | 8 | | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Var. | Diff. Long. | Long. in. | Long by Ob. |
| S 28 E | 87 | 1.13 | 40 | 40.02 | 40.04 | 14 | 0.56 | 123.2 | |

S 61 E 101 30 41 40.16

2.01 20.31

2 days out

Ship *St Andrew* from *Salem* towards *Manilla*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|---------|------|-----------------------------------|
| 1 | 3 | | E by S | SE by E | 1 | On Sunday June 2 nd |
| 2 | 3 | | E by S | | | Begin with heavy gales from |
| 3 | 3 | | E by S | | | SE with squally rainy weather |
| 4 | 3 | | SE by E | SE by E | | Carried away the top-sail, and |
| 5 | 3 | | | | | in hauling down the top-sail, the |
| 6 | 3 | | | | | iron caught fast of the sea early |
| 7 | 3 | | | | | of the fore-top-sail, took them |
| 8 | 3 | | | | | aloft and lost two of them over |
| 9 | 3 | | | | | board. |
| 10 | 3 | | | | | At 2 turned out a red sail out of |
| 11 | 3 | | | | | the top-sails and set the top and |
| 12 | 3 | | | | | courses. |
| 1 | 3 | | | | | Midnight Strong breeze and clear |
| 2 | 3 | | | | | weather At 3 at 11 shook a |
| 3 | 3 | | | | | red out of the top-sail and set |
| 4 | 3 | | | | | the main-top gallant sail |
| 5 | 3 | | | | | At 12 at 1 took out all reefs |
| 6 | 3 | | | | | and set the light sail and fore |
| 7 | 3 | | | | | top-sail and fore |
| 8 | 3 | | | | | top-sail and fore |
| 9 | 3 | | | | | top-sail and fore |
| 10 | 3 | | | | | top-sail and fore |
| 11 | 3 | | | | | top-sail and fore |
| 12 | 3 | | | | | top-sail and fore |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Long. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| SE by E | 152 | 40 | 142 | 59.16 | 59.16 | 78 | 3.00 | 55.35 | 55.35 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|--|
| 1 | 5 | | SE | SE | | On Monday June 3 rd 1838 |
| 2 | 6 | | | | | Commenced with strong breeze |
| 3 | 7 | | | | | and thick squally rainy weather |
| 4 | 7 | | | | | At 4 P.M. squally took in the light |
| 5 | 7 | | | | | sail; throughout the remainder of |
| 6 | 7 | | | | | these 24 hours heavy squally from the |
| 7 | 7 | | | | | at W to N E took in and made sail |
| 8 | 7 | | | | | as occasion required |
| 9 | 7 | | | | | |
| 10 | 7 | | | | | |
| 11 | 8 | | | | | To day we have fine weather for the |
| 12 | 8 | | | | | first time, since we left, or at least |
| 1 | 8 | | | | | the first time it has lasted long en |
| 2 | 8 | | | | | ough to call it so. Turned in this m |
| 3 | 8 | | | | | orning and endeavored to get a sheet |
| 4 | 8 | | | | | but did not succeed, my thoughts |
| 5 | 8 | | | | | were too busy on other subject. I was |
| 6 | 8 | | | | | engaged in overhauling my memory |
| 7 | 8 | | | | | and my conscience full of many |
| 8 | 8 | | | | | faults that it was my duty to correct |
| 9 | 8 | | | | | and many, I am that I have |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Long. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| SE by E | 158 | 1.02 | 175 | 58.15 | 58.50 | 14 | 4.02 | 54.34 | 51.44 |

7 days out

Ship *St Paul* from *Salem* towards *Manilla*

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | |
|---------|-------|------------|--------|---------------|--|--------|-------------|-----------|--------------|
| 1 | 1 | SE by E | West | | The Tuesday June 4 th 1839 Begin with fresh breeze and Cloudy with passing squalls of Wind and rain, took up, and made sail as occasion required. Men employed repairing Sails, coxswain new Fore Top Gall Sheet, Jib Main Royal sheets andcludines | | | | |
| 2 | 1 | | | | | | | | |
| 3 | 1 | | | | | | | | |
| 4 | 1 | | | | | | | | |
| 5 | 1 | | | | | | | | |
| 6 | 1 | | | | | | | | |
| 7 | 10 | | | | | | | | |
| 8 | 1 | | | | | | | | |
| 9 | 1 | | | | | | | | |
| 10 | 1 | | | | | | | | |
| 11 | 1 | | | | | | | | |
| 12 | 1 | | | | | | | | |
| 1 | 1 | SW | SW | | perform. The greatest of these faults is bar. leanness, which I have tried hard to correct myself, and I flatter myself that I have partially succeeded, for we are now out 10 days and I have not lost my knife, once, as yet since we left to which is doing very well indeed for me, as I used to stay a month or 5 times a day out voyaging, and always used to keep two knives in use always so that if I lost one I would have another to go ahead | | | | |
| 2 | 1 | | | | | | | | |
| 3 | 1 | | | | | | | | |
| 4 | 1 | | | | | | | | |
| 5 | 1 | | | | | | | | |
| 6 | 1 | | | | | | | | |
| 7 | 1 | | | | | | | | |
| 8 | 1 | | | | | | | | |
| 9 | 1 | | | | | | | | |
| 10 | 1 | | | | | | | | |
| 11 | 1 | | | | | | | | |
| 12 | 1 | | | | | | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| SE 46 | 218 | 1.00 | 210 | 37.50 | 37.52 | N | 4.28 | 47.16 | 46.58 |

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | |
|---------|-------|------------|---------|---------------|--|--------|-------------|-----------|--------------|
| 1 | 8 | SE by E | SE by E | | On Wednesday June 5 th 1839 Commence with fresh breezes and fine weather, SE in all strong sails and Light Sails. At 12 noon sight a heavy squall from the NW split the Fore Top Gall sail & carried away the Main Top sail sheet and Main tack. Opened a barrel of Beef I used 6 fathoms, new 3 yards gunny bag to serve the Fore Top mast stay. The Men employed repairing sails, mending the shrou year and other jobs of Ships duty. | | | | |
| 2 | 8 | | | | | | | | |
| 3 | 8 | | | | | | | | |
| 4 | 8 | | | | | | | | |
| 5 | 8 | | | | | | | | |
| 6 | 8 | | | | | | | | |
| 7 | 8 | | | | | | | | |
| 8 | 8 | | | | | | | | |
| 9 | 8 | | | | | | | | |
| 10 | 8 | | | | | | | | |
| 11 | 8 | | | | | | | | |
| 12 | 8 | | | | | | | | |
| 1 | 1 | SE by E | SE by E | | with my next is procuring a new putter off till tomorrow. I think had better been done to day, and next I must endeavour to undergo more in Penmanship, and leave off reading no much light reading for | | | | |
| 2 | 1 | | | | | | | | |
| 3 | 1 | | | | | | | | |
| 4 | 1 | | | | | | | | |
| 5 | 1 | | | | | | | | |
| 6 | 1 | | | | | | | | |
| 7 | 1 | | | | | | | | |
| 8 | 1 | | | | | | | | |
| 9 | 1 | | | | | | | | |
| 10 | 1 | | | | | | | | |
| 11 | 1 | | | | | | | | |
| 12 | 1 | | | | | | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| SE 46 | 724 | 1.05 | 161 | 30.47 | 30.11 | N | 3.42 | 48.46 | 47.24 |

11 days out

Ship *St Paul* from *Salem*

towards *Manilla*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | | | |
|----------|----|------|----------|------------|------|---|-------------|-------|-------------|-----------|--------------|
| 1 | 0 | 1 | SE 1/2 E | SE | | On Thursday June 6 th Begin with fine breeze and pleasant weather. We do not sail too fast. The same as above. Then we sail and sail with a rising breeze some that will be more agreeable and so on forward. But it is nothing making for more. So we inquire another performing. Then we sail up the subject for now; we do not can only then that we sail on, when on the paper for home. We have to a very well done in the last five days and the two still continues and very appearance of its sailing on; which I am in hopes that I will have more to do in. | | | | | |
| 2 | 0 | 1 | | | | | | | | | |
| 3 | 0 | 1 | | | | | | | | | |
| 4 | 0 | 1 | | | | | | | | | |
| 5 | 0 | 1 | | | | | | | | | |
| 6 | 0 | 1 | | | | | | | | | |
| 7 | 0 | 1 | | | | | | | | | |
| 8 | 0 | 1 | | | | | | | | | |
| 9 | 0 | 1 | | | | | | | | | |
| 10 | 0 | 1 | | | | | | | | | |
| 11 | 0 | 1 | | | | | | | | | |
| 12 | 0 | 1 | | | | | | | | | |
| 1 | 0 | 1 | | | | | | | | | |
| 2 | 0 | 1 | | | | | | | | | |
| 3 | 0 | 1 | | | | | | | | | |
| 4 | 0 | 1 | | | | | | | | | |
| 5 | 0 | 1 | | | | | | | | | |
| 6 | 0 | 1 | | | | | | | | | |
| 7 | 0 | 1 | | | | | | | | | |
| 8 | 0 | 1 | | | | | | | | | |
| 9 | 0 | 1 | | | | | | | | | |
| 10 | 0 | 1 | | | | | | | | | |
| 11 | 0 | 1 | | | | | | | | | |
| 12 | 0 | 1 | | | | | | | | | |
| Course. | | | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
| SE 1/2 E | | | 146 | 1.19 | 122 | 3452 | 3452 | 13 | 230 | 46.46 | 4059 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | | | |
|----------|----|------|----------|------------|------|---|-------------|-------|-------------|-----------|--------------|
| 1 | 0 | 1 | SE 1/2 E | | SE | On Friday June 7 th 1832 The wind was at the Eastward, and at the time, we sail with a rising breeze, and with another. But we are still making up for lost time. The ship sails well and I hope we shall have as short a passage as the last voyage; at least I shall do all I can to make it so. I am well contented, and hope to follow with the ship and together, glad that I came on her as I hope to have a pleasant and agreeable voyage. | | | | | |
| 2 | 0 | 1 | | | | | | | | | |
| 3 | 0 | 1 | | | | | | | | | |
| 4 | 0 | 1 | | | | | | | | | |
| 5 | 0 | 1 | | | | | | | | | |
| 6 | 0 | 1 | | | | | | | | | |
| 7 | 0 | 1 | | | | | | | | | |
| 8 | 0 | 1 | | | | | | | | | |
| 9 | 0 | 1 | | | | | | | | | |
| 10 | 0 | 1 | | | | | | | | | |
| 11 | 0 | 1 | | | | | | | | | |
| 12 | 0 | 1 | | | | | | | | | |
| 1 | 0 | 1 | | | | | | | | | |
| 2 | 0 | 1 | | | | | | | | | |
| 3 | 0 | 1 | | | | | | | | | |
| 4 | 0 | 1 | | | | | | | | | |
| 5 | 0 | 1 | | | | | | | | | |
| 6 | 0 | 1 | | | | | | | | | |
| 7 | 0 | 1 | | | | | | | | | |
| 8 | 0 | 1 | | | | | | | | | |
| 9 | 0 | 1 | | | | | | | | | |
| 10 | 0 | 1 | | | | | | | | | |
| 11 | 0 | 1 | | | | | | | | | |
| 12 | 0 | 1 | | | | | | | | | |
| Course. | | | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
| SE 1/2 E | | | 155 | 1.17 | 107 | 33 53 | 32.50 | 18 | 3.42 | 47.84 | 37.55 |

13 Days out

Ship *St Paul* from *Salem* towards *Manila*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|--|
| 1 | 2 | | SE 1/2 S | 17 | | At about the 24 hours pin took |
| 3 | 4 | | SE | | | from about 1/2 m. bearing north |
| 5 | 6 | | | | | thence the sea got the ship |
| 7 | 8 | | | | | in the place near a long sphere |
| 9 | 10 | | | | | in it |
| 11 | 12 | | | | | the sea got beautiful & rather air |
| 1 | 2 | | | | | the ship was much. This morning |
| 3 | 4 | | | | | we caught a Bon-tar, and began |
| 5 | 6 | | | | | I think myself quite a harp |
| 7 | 8 | | | | | and I never being our first success |
| 9 | 10 | | | | | at attempt with the grain. I've |
| 11 | 12 | | | | | been to give us a weight all the good |
| 1 | 2 | | | | | fish. Now before we begin |
| 3 | 4 | | | | | to keep from under the lee of the |
| 5 | 6 | | | | | Ship St Paul, and a quantity of |
| 7 | 8 | | | | | we got 8 harp or 10 harp |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long in. | Long by Ob. |
|----------|-------|------------|------|--------------|-------------|--------|-------------|----------|-------------|
| SE 1/2 S | 123 | 1.54 | 110 | | 31.02 | 17 | 2.17 | 55.58 | 55.58 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|--|
| 1 | 2 | | SE | 17 | | At about the 24 hours pin took |
| 3 | 4 | | | | | from about 1/2 m. bearing north |
| 5 | 6 | | | | | thence the sea got the ship |
| 7 | 8 | | | | | in the place near a long sphere |
| 9 | 10 | | | | | in it |
| 11 | 12 | | | | | the sea got beautiful & rather air |
| 1 | 2 | | | | | the ship was much. This morning |
| 3 | 4 | | | | | we caught a Bon-tar, and began |
| 5 | 6 | | | | | I think myself quite a harp |
| 7 | 8 | | | | | and I never being our first success |
| 9 | 10 | | | | | at attempt with the grain. I've |
| 11 | 12 | | | | | been to give us a weight all the good |
| 1 | 2 | | | | | fish. Now before we begin |
| 3 | 4 | | | | | to keep from under the lee of the |
| 5 | 6 | | | | | Ship St Paul, and a quantity of |
| 7 | 8 | | | | | we got 8 harp or 10 harp |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long in. | Long by Ob. |
|----------|-------|------------|------|--------------|-------------|--------|-------------|----------|-------------|
| SE 1/2 S | 88 | 44 | 20 | | 30.10 | 17 | 1.21 | 34.17 | 34.17 |

Ship's Dut from *Salon* towards *Mauritius*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|---|----|------|----------|--------|------|---------------------------------------|
| 1 | 6 | | SE | SE | | Went 24 hours running with the |
| 2 | 6 | | | | | off Cape Horn. The ship gave the |
| 3 | 6 | | | | | flag. At 10 p.m. I left the ship, the |
| 4 | 6 | | | | | gun. I suppose to have been the |
| 5 | 6 | | | | | gun. I suppose to have been the |
| 6 | 6 | | | | | gun. I suppose to have been the |
| 7 | 6 | | | | | gun. I suppose to have been the |
| 8 | 6 | | | | | gun. I suppose to have been the |
| 9 | 6 | | | | | gun. I suppose to have been the |
| 10 | 6 | | | | | gun. I suppose to have been the |
| 11 | 6 | | | | | gun. I suppose to have been the |
| 12 | 6 | | | | | gun. I suppose to have been the |
| 1 | 6 | | | | | gun. I suppose to have been the |
| 2 | 6 | | | | | gun. I suppose to have been the |
| 3 | 6 | | | | | gun. I suppose to have been the |
| 4 | 6 | | | | | gun. I suppose to have been the |
| 5 | 6 | | | | | gun. I suppose to have been the |
| 6 | 6 | | | | | gun. I suppose to have been the |
| 7 | 6 | | | | | gun. I suppose to have been the |
| 8 | 6 | | | | | gun. I suppose to have been the |
| 9 | 6 | | | | | gun. I suppose to have been the |
| 10 | 6 | | | | | gun. I suppose to have been the |
| 11 | 6 | | | | | gun. I suppose to have been the |
| 12 | 6 | | | | | gun. I suppose to have been the |
| Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Ydg. Diff. Long. Long. in. Long. by Ob. | | | | | | |
| 136 137 1.54 36 27.35 27.35 11 125 2.49 92.1 | | | | | | |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|---|----|------|----------|--------|------|---------------------------------------|
| 1 | 3 | | SE | SE | | Went 24 hours running with the |
| 2 | 3 | | | | | off Cape Horn. The ship gave the |
| 3 | 3 | | | | | flag. At 10 p.m. I left the ship, the |
| 4 | 3 | | | | | gun. I suppose to have been the |
| 5 | 3 | | | | | gun. I suppose to have been the |
| 6 | 3 | | | | | gun. I suppose to have been the |
| 7 | 3 | | | | | gun. I suppose to have been the |
| 8 | 3 | | | | | gun. I suppose to have been the |
| 9 | 3 | | | | | gun. I suppose to have been the |
| 10 | 3 | | | | | gun. I suppose to have been the |
| 11 | 3 | | | | | gun. I suppose to have been the |
| 12 | 3 | | | | | gun. I suppose to have been the |
| 1 | 3 | | | | | gun. I suppose to have been the |
| 2 | 3 | | | | | gun. I suppose to have been the |
| 3 | 3 | | | | | gun. I suppose to have been the |
| 4 | 3 | | | | | gun. I suppose to have been the |
| 5 | 3 | | | | | gun. I suppose to have been the |
| 6 | 3 | | | | | gun. I suppose to have been the |
| 7 | 3 | | | | | gun. I suppose to have been the |
| 8 | 3 | | | | | gun. I suppose to have been the |
| 9 | 3 | | | | | gun. I suppose to have been the |
| 10 | 3 | | | | | gun. I suppose to have been the |
| 11 | 3 | | | | | gun. I suppose to have been the |
| 12 | 3 | | | | | gun. I suppose to have been the |
| Course. Dist. Diff. Lat. Dep. Lat. by D. R. Lat. by Ob. Ydg. Diff. Long. Long. in. Long. by Ob. | | | | | | |
| 140 44 33 25 29.02 28.02 16 32 149 3.14 | | | | | | |

Ship *St Paul* from *Salerno* towards *Manilla*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|--------------------------------|
| 1 | 5 | | South | East | | This day begins with much haze |
| 2 | 5 | 1 | | | | from the Eastward, and then |
| 3 | 5 | | | | | haze to and South, but the |
| 4 | 5 | 1 | | | | same is there; look in the mid |
| 5 | 5 | | S. S. E. | | | day as near as possible |
| 6 | 5 | | S. S. E. | | | light, and the squalls fair |
| 7 | 5 | | S. S. E. | | | other low, ships at |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | | | | | At 10 am work it over the |
| 2 | 5 | | | | | of the water it was not yet |
| 3 | 5 | | | | | we have been on, and all |
| 4 | 5 | | | | | our vessels are all |
| 5 | 5 | | | | | low, & work it as well as |
| 6 | 5 | | | | | at 10 am, but I believe |
| 7 | 5 | | | | | some mistake, that I |
| 8 | 5 | | | | | work I will begin again |
| 9 | 5 | | | | | the weather is not so |
| 10 | 5 | | | | | at 10 am, but I believe |
| 11 | 5 | | | | | at 10 am, but I believe |
| 12 | 5 | | | | | at 10 am, but I believe |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|--------|-------------|-----------|--------------|
| J. 186 | 157 | 2.51 | 50 | | 20.1 | 15 | 56 | 20.51 | 20.51 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|-------------------------|
| 1 | 5 | | South | East | | Spine at 10 am, then |
| 2 | 5 | | | | | from the Eastward, and |
| 3 | 5 | | | | | haze to and South, but |
| 4 | 5 | | | | | the same is there; look |
| 5 | 5 | | | | | in the mid day as near |
| 6 | 5 | | | | | as possible light, and |
| 7 | 5 | | | | | the squalls fair other |
| 8 | 5 | | | | | low, ships at |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | | | | | At 10 am work it over |
| 2 | 5 | | | | | the water it was not |
| 3 | 5 | | | | | yet we have been on, |
| 4 | 5 | | | | | and all our vessels |
| 5 | 5 | | | | | are all low, & work |
| 6 | 5 | | | | | it as well as at 10 |
| 7 | 5 | | | | | am, but I believe |
| 8 | 5 | | | | | some mistake, that |
| 9 | 5 | | | | | I will begin again |
| 10 | 5 | | | | | when the weather is |
| 11 | 5 | | | | | not so at 10 am, but |
| 12 | 5 | | | | | I believe |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|--------|-------------|-----------|--------------|
| J. 186 | 186 | 3.12 | 51 | 23.21 | 23.15 | 15 | 2.57 | 23.54 | |

17. 186

Ship from Salem towards Vanille

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|--|
| 1 | 8 | 1 | South | East | | This on Tides with fine breeze and pleasant weather. The wind blew fair and at the best of the day. |
| 2 | 8 | | | | | |
| 3 | 8 | | | | | |
| 4 | 8 | 1 | | | | |
| 5 | 8 | 1 | | | | |
| 6 | 8 | 1 | | | | |
| 7 | 8 | 1 | | | | |
| 8 | 8 | 1 | | | | |
| 9 | 8 | 1 | | | | |
| 10 | 8 | 1 | | | | |
| 11 | 8 | 1 | | | | |
| 12 | 8 | 1 | | | | |
| 1 | 8 | | | | | But look again! Attention to Space this morning with a breeze to windward (a breeze) and it was not so cutting as we, I saw it was a breeze with some rain about a point of up shore, before which it was to be with a breeze to windward and a short space again the breeze was gone to the westward that I was to be shown a share of the breeze |
| 2 | 8 | | | | | |
| 3 | 8 | | | | | |
| 4 | 8 | | | | | |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S 11 E | 15 6 | 3,00 | 48 | 20.17 | 20.05 | 14 | 48 | 29.02 | 29.15 |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|--|
| 1 | 6 | 1 | South | East | | Breeze with fine breeze and pleasant weather. The wind blew fair and at the best of the day. |
| 2 | 6 | 1 | | | | |
| 3 | 6 | 1 | | | | |
| 4 | 6 | 1 | | | | |
| 5 | 6 | 1 | | | | |
| 6 | 6 | 1 | | | | |
| 7 | 6 | 1 | | | | |
| 8 | 6 | 1 | | | | |
| 9 | 6 | 1 | | | | |
| 10 | 6 | 1 | | | | |
| 11 | 6 | 1 | | | | |
| 12 | 6 | 1 | | | | |
| 1 | 6 | | | | | But look again! Attention to Space this morning with a breeze to windward (a breeze) and it was not so cutting as we, I saw it was a breeze with some rain about a point of up shore, before which it was to be with a breeze to windward and a short space again the breeze was gone to the westward that I was to be shown a share of the breeze |
| 2 | 6 | | | | | |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S 11 E | 15 5 | 2.33 | 35 | 19.11 | 19.02 | 14 | 41 | 29.34 | 29.38 |

21 days out

Ship 112 from Salome towards Manilla

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | On Sunday June 16 | | | | | |
|---------|-------|------------|--------|---------------|--------------------------------------|-------------------|-------------|-----------|--------------|--|--|
| 1 | 1 | 1/2 C | ESE | | Those 24 pine trees are cloudy | | | | | | |
| 2 | 1 | | | | greater 1/2 cream sails set to | | | | | | |
| 3 | 1 | | | | the best advantage | | | | | | |
| 4 | 1 | South | | | | | | | | | |
| 5 | 1 | | | | | | | | | | |
| 6 | 1 | | | | some time D. 1/2 has out | | | | | | |
| 7 | 1 | | | | (my) imagine his anger and such | | | | | | |
| 8 | 1 | | | | and so far about a quart of salt | | | | | | |
| 9 | 1 | 1/2 C | | | on set and answered it. It was a | | | | | | |
| 10 | 1 | | | | good joke for me so I got out of | | | | | | |
| 11 | 1 | | | | his sight and now a fine sunset | | | | | | |
| 12 | 1 | | | | laugh at it. It seems to set. Hope | | | | | | |
| 1 | 1 | 1/2 C | | | (the) ship in Salome to fresh | | | | | | |
| 2 | 1 | | | | in salt and to have reached | | | | | | |
| 3 | 1 | | | | with 1/2 C and so we have got | | | | | | |
| 4 | 1 | 1/2 C | | | some 1/2 C. Crabs, sauce that | | | | | | |
| 5 | 1 | | | | with high water, or must be the | | | | | | |
| 6 | 1 | | | | | | | | | | |
| 7 | 1 | | | | had some of us to salt. I am | | | | | | |
| 8 | 1 | | | | mer. but it was as salt as L. 1/2 C. | | | | | | |
| 9 | 1 | | | | | | | | | | |
| 10 | 1 | 1/2 C | | | and so we have got | | | | | | |
| 11 | 1 | | | | | | | | | | |
| 12 | 1 | 1/2 C | | | | | | | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Y. or N. | Diff. Long. | Long. in. | Long. by Ob. | | |
| 1/2 C | 155 | 2.28 | 53 | 14.46 | 14.24 | 14 | 56 | 2542 | 22.41 | | |

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | On Monday June 17 | | | | | |
|---------|-------|------------|--------|---------------|-----------------------------------|-------------------|-------------|-----------|--------------|--|--|
| 1 | 1 | 1/2 C | ESE | | The my fresh boxes from Es | | | | | | |
| 2 | 1 | | | | and S. and lower. Larva | | | | | | |
| 3 | 1 | | | | just strong to go and pleasant | | | | | | |
| 4 | 1 | | | | thru. out of the in repairing | | | | | | |
| 5 | 1 | | | | Said myahina, mat. ex. hauling | | | | | | |
| 6 | 1 | 1/2 C | | | black. 1/2 C. | | | | | | |
| 7 | 1 | | | | | | | | | | |
| 8 | 1 | 1/2 C | | | | | | | | | |
| 9 | 1 | | | | | | | | | | |
| 10 | 1 | 1/2 C | | | Singha a little for home, as so | | | | | | |
| 11 | 1 | | | | some home gather, and all found | | | | | | |
| 12 | 1 | 1/2 C | | | some good rabbit to come along | | | | | | |
| 1 | 1 | | | | found to the United States about | | | | | | |
| 2 | 1 | | | | twelve. to take them home as | | | | | | |
| 3 | 1 | | | | as a matter in washing, etc. | | | | | | |
| 4 | 1 | 1/2 C | | | about 1/2 C. my be again a little | | | | | | |
| 5 | 1 | | | | the year which I found to be much | | | | | | |
| 6 | 1 | | | | harder than my, but as my shoe | | | | | | |
| 7 | 1 | | | | my eye made by carrying it to | | | | | | |
| 8 | 1 | | | | being very fine. I like, and the | | | | | | |
| 9 | 1 | | | | | | | | | | |
| 10 | 1 | 1/2 C | | | | | | | | | |
| 11 | 1 | | | | | | | | | | |
| 12 | 1 | | | | | | | | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Y. or N. | Diff. Long. | Long. in. | Long. by Ob. | | |
| 1/2 C | 111 | 2.27 | 72 | 11.35 | 12.05 | 14 | 1.14 | 2628 | 26.28 | | |

Ship the day from Salem towards Havana

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. | | | | |
|---------|----|-------|------------|--------|---------------|-------------------------------|------|-------------|-----------|--------------|
| 1 | 2 | 1 | SE | East | | 1. engines with 2nd bars are | | | | |
| 2 | 3 | 1 | | | | 2. engines with 2nd bars are | | | | |
| 3 | 4 | 1 | | | | 3. engines with 2nd bars are | | | | |
| 4 | 5 | 1 | | | | 4. engines with 2nd bars are | | | | |
| 5 | 6 | 1 | | | | 5. engines with 2nd bars are | | | | |
| 6 | 7 | 1 | | | | 6. engines with 2nd bars are | | | | |
| 7 | 8 | 1 | | | | 7. engines with 2nd bars are | | | | |
| 8 | 9 | 1 | | | | 8. engines with 2nd bars are | | | | |
| 9 | 10 | 1 | | | | 9. engines with 2nd bars are | | | | |
| 10 | 11 | 1 | | | | 10. engines with 2nd bars are | | | | |
| 11 | 12 | 1 | | | | 11. engines with 2nd bars are | | | | |
| 12 | 1 | 1 | | | | 12. engines with 2nd bars are | | | | |
| 1 | 2 | 1 | | | | 1. engines with 2nd bars are | | | | |
| 2 | 3 | 1 | | | | 2. engines with 2nd bars are | | | | |
| 3 | 4 | 1 | | | | 3. engines with 2nd bars are | | | | |
| 4 | 5 | 1 | | | | 4. engines with 2nd bars are | | | | |
| 5 | 6 | 1 | | | | 5. engines with 2nd bars are | | | | |
| 6 | 7 | 1 | | | | 6. engines with 2nd bars are | | | | |
| 7 | 8 | 1 | | | | 7. engines with 2nd bars are | | | | |
| 8 | 9 | 1 | | | | 8. engines with 2nd bars are | | | | |
| 9 | 10 | 1 | | | | 9. engines with 2nd bars are | | | | |
| 10 | 11 | 1 | | | | 10. engines with 2nd bars are | | | | |
| 11 | 12 | 1 | | | | 11. engines with 2nd bars are | | | | |
| 12 | 1 | 1 | | | | 12. engines with 2nd bars are | | | | |
| Course. | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Var. | Diff. Long. | Long. in. | Long. by Ob. |
| SE | | 184 | 1.50 | 95 | 10.29 | 10.29 | 14 | 100 | 25.25 | |

| H. R. | H.K. | Courses. | Winds. | Lec. | Remarks. | | | | | |
|---------|------|----------|------------|------|---------------------------|-------------|------|-------------|-----------|--------------|
| 1 | 2 | | SE | | Engines with 2nd bars are | | | | | |
| 2 | 3 | | | | Engines with 2nd bars are | | | | | |
| 3 | 4 | | | | Engines with 2nd bars are | | | | | |
| 4 | 5 | | | | Engines with 2nd bars are | | | | | |
| 5 | 6 | | | | Engines with 2nd bars are | | | | | |
| 6 | 7 | | SE | | Engines with 2nd bars are | | | | | |
| 7 | 8 | | | | Engines with 2nd bars are | | | | | |
| 8 | 9 | | | | Engines with 2nd bars are | | | | | |
| 9 | 10 | | | | Engines with 2nd bars are | | | | | |
| 10 | 11 | | | | Engines with 2nd bars are | | | | | |
| 11 | 12 | | | | Engines with 2nd bars are | | | | | |
| 12 | 1 | | | | Engines with 2nd bars are | | | | | |
| 1 | 2 | | | | Engines with 2nd bars are | | | | | |
| 2 | 3 | | | | Engines with 2nd bars are | | | | | |
| 3 | 4 | | | | Engines with 2nd bars are | | | | | |
| 4 | 5 | | | | Engines with 2nd bars are | | | | | |
| 5 | 6 | | | | Engines with 2nd bars are | | | | | |
| 6 | 7 | | | | Engines with 2nd bars are | | | | | |
| 7 | 8 | | | | Engines with 2nd bars are | | | | | |
| 8 | 9 | | | | Engines with 2nd bars are | | | | | |
| 9 | 10 | | | | Engines with 2nd bars are | | | | | |
| 10 | 11 | | | | Engines with 2nd bars are | | | | | |
| 11 | 12 | | | | Engines with 2nd bars are | | | | | |
| 12 | 1 | | | | Engines with 2nd bars are | | | | | |
| Course. | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Var. | Diff. Long. | Long. in. | Long. by Ob. |
| SE | | 184 | 1.30 | 2 | 9.25 | 8.25 | 14 | 100 | 25.25 | 24.30 |

25 days out

Ship *St Paul* from *Salem* towards *Hanilla*

[illegible]

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|-------|-------|----------|--------|------|----------------|
| 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 1 | 1 | 1 | 1 |
| 3 | 1 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 1 | 1 |
| 5 | 1 | 1 | 1 | 1 | 1 |
| 6 | 1 | 1 | 1 | 1 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 |
| 8 | 1 | 1 | 1 | 1 | 1 |
| 9 | 1 | 1 | 1 | 1 | 1 |
| 10 | 1 | 1 | 1 | 1 | 1 |
| 11 | 1 | 1 | 1 | 1 | 1 |
| 12 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 1 | 1 | 1 | 1 |
| 3 | 1 | 1 | 1 | 1 | 1 |
| 4 | 1 | 1 | 1 | 1 | 1 |
| 5 | 1 | 1 | 1 | 1 | 1 |
| 6 | 1 | 1 | 1 | 1 | 1 |
| 7 | 1 | 1 | 1 | 1 | 1 |
| 8 | 1 | 1 | 1 | 1 | 1 |
| 9 | 1 | 1 | 1 | 1 | 1 |
| 10 | 1 | 1 | 1 | 1 | 1 |
| 11 | 1 | 1 | 1 | 1 | 1 |
| 12 | 1 | 1 | 1 | 1 | 1 |
| | | | | | Course. |
| | | | | | Dist. |
| | | | | | Dip. Ang. |
| | | | | | Dep. |
| | | | | | Lat. by A. B. |
| | | | | | Lat. by C. D. |
| | | | | | Var. Ang. |
| | | | | | Dip. Ang. |
| | | | | | Long. by A. B. |
| | | | | | Long by C. D. |

27 June 1861

Ship *St Paul* from *Tahiti* towards *Hawaii*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|-----------------------------|
| 1 | 2 | | SE | | | Commenced with light breeze |
| 2 | 2 | 1 | SE | | | and light breeze |
| 3 | 2 | 1 | SE | | | and light breeze |
| 4 | 2 | 1 | SE | | | and light breeze |
| 5 | 2 | 1 | SE | | | and light breeze |
| 6 | 1 | | SE | | | and light breeze |
| 7 | 1 | | SE | | | and light breeze |
| 8 | 2 | 1 | SE | | | and light breeze |
| 9 | 2 | | SE | | | and light breeze |
| 10 | 2 | | SE | | | and light breeze |
| 11 | 2 | | SE | | | and light breeze |
| 12 | 2 | | SE | | | and light breeze |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by D. R. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------------|--------------|
| SE | 80 | 42 | 75 | 6.11 | 6.11 | 15 | 1.10 | 21.50 | 21.50 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|---------------------------------|
| 1 | 2 | | SE | | | beginning with light breeze and |
| 2 | 2 | | SE | | | smoothly. Rainy weather |
| 3 | 2 | | SE | | | and light breeze |
| 4 | 2 | 1 | SE | | | and light breeze |
| 5 | 2 | 1 | SE | | | and light breeze |
| 6 | 2 | 1 | SE | | | and light breeze |
| 7 | 2 | 1 | SE | | | and light breeze |
| 8 | 2 | 1 | SE | | | and light breeze |
| 9 | 2 | 1 | SE | | | and light breeze |
| 10 | 2 | 1 | SE | | | and light breeze |
| 11 | 2 | 1 | SE | | | and light breeze |
| 12 | 2 | 1 | SE | | | and light breeze |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by D. R. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------------|--------------|
| SE | 81 | 28 | 80 | 5.45 | 5.45 | 15 | 1.20 | 20.5 | 20.5 |

27 50 00

| Ship <i>St. John</i> from <i>Lisbon</i> towards <i>Haville</i> | | | | | | | | | | | | | | | |
|--|----|-------|----------|--------|------|---------------------------------|---|-------|------------|----------------------|-------------|--------|-------------|--------------|-------|
| H. | K. | H. K. | Courses. | Winds. | Lec. | Remarks. | On <i>Thursday</i> June 25 | | | | | | | | |
| 1 | 5 | 1 | SE | South | | This 24 hours strong breeze and | <i>Monday June 25</i> I have in our time had not been mis vent. I. North east, there is our mouth of our voyage now, in 4 more days we are hope to be to the Northward of this time, and hope to be at home before the time is of the evening perfect it will be cold even to the top without our wishing for it and it is a great matter what we want, but a fine thing is to be for us to get | | | | | | | | |
| 2 | 5 | 1 | | | | | | | | | | | | | |
| 3 | 5 | 1 | | | | | | | | | | | | | |
| 4 | 5 | 1 | | | | | | | | | | | | | |
| 5 | 5 | | | | | | | | | | | | | | |
| 6 | 5 | | | | | | | | | | | | | | |
| 7 | 5 | | | | | | | | | | | | | | |
| 8 | 5 | | | | | | | | | | | | | | |
| 9 | 5 | | | | | | | | | | | | | | |
| 10 | 5 | | | | | | | | | | | | | | |
| 11 | 5 | | | | | | | | | | | | | | |
| 12 | 5 | | | | | | | | | | | | | | |
| | | | | | | | Course. | Dist. | Diff. lat. | Dep. + Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by Ob. | |
| SS | | | | | | | 100 | 56 | 80 | 4.58 | 5.58 | 15 | 1.39 | 1741 | 17.35 |
| H. | K. | H. K. | Courses. | Winds. | Lec. | Remarks. | On <i>Friday</i> June 26 | | | | | | | | |
| 1 | 5 | 1 | SE | | | This day Sept. from breeze | <i>Friday June 26</i> from South & SE breeze and a breeze in sight to toward East & North. to the Northward, East & East and search a thick fog at East, so that we can not run any more are a great deal of liquor and sold a quantity of rum from over board in the steamer. There are hail with just enough rain to make a flash on deck so that it won't be next to impossible to spend it, it would be beautiful, & light up, I would be in then, as good time as a half starved man, and would stand in need of some food, nothing to eat, no thought of | | | | | | | | |
| 2 | 5 | 1 | | | | | | | | | | | | | |
| 3 | 5 | 1 | | | | | | | | | | | | | |
| 4 | 5 | 1 | | | | | | | | | | | | | |
| 5 | 5 | | | | | | | | | | | | | | |
| 6 | 5 | | | | | | | | | | | | | | |
| 7 | 5 | | | | | | | | | | | | | | |
| 8 | 5 | | | | | | | | | | | | | | |
| 9 | 5 | | | | | | | | | | | | | | |
| 10 | 5 | | | | | | | | | | | | | | |
| 11 | 5 | | | | | | | | | | | | | | |
| 12 | 5 | | | | | | | | | | | | | | |
| | | | | | | | Course. | Dist. | Diff. lat. | Dep. + Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by Ob. | |
| SS | | | | | | | 41 | 20 | 51 | 5.59 | 5.33 | 15 | 59 | 1740 | 17.11 |

Ship H. from Section towards Manilla

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | | | |
|---------|----|------|----------|------------|------|--|-------------|--------|-------------|-----------|--------------|
| 1 | 2 | | W.S.W. | 1/2 | | Commenced with strong breeze and fine weather the barometer in sight | | | | | |
| 2 | 2 | | W.S.W. | | | to S.W. at 8 the barometer had | | | | | |
| 3 | 2 | | W.S.W. | | | fallen to the quarter 11 8 that | | | | | |
| 4 | 2 | | W.S.W. | | | showed the barometer was in | | | | | |
| 5 | 2 | | W.S.W. | | | in R. got better. | | | | | |
| 6 | 2 | | W.S.W. | | | | | | | | |
| 7 | 2 | | W.S.W. | | | | | | | | |
| 8 | 2 | | W.S.W. | | | | | | | | |
| 9 | 2 | | W.S.W. | | | | | | | | |
| 10 | 2 | | W.S.W. | | | The ship commenced in a | | | | | |
| 11 | 2 | | W.S.W. | | | fine weather getting important | | | | | |
| 12 | 2 | | W.S.W. | | | weather in the morning but the | | | | | |
| 1 | 2 | | W.S.W. | | | weather to be better than 11 8 and | | | | | |
| 2 | 2 | | W.S.W. | | | in the East which was in view | | | | | |
| 3 | 2 | | W.S.W. | | | Manilla point & the line of the | | | | | |
| 4 | 2 | | W.S.W. | | | shore were seen within 6 | | | | | |
| 5 | 2 | | W.S.W. | | | the H. Column was the same | | | | | |
| 6 | 2 | | W.S.W. | | | time as before when they got | | | | | |
| 7 | 2 | | W.S.W. | | | in company other ships who | | | | | |
| 8 | 2 | | W.S.W. | | | had as good a view as we of them | | | | | |
| 9 | 2 | | W.S.W. | | | | | | | | |
| 10 | 2 | | W.S.W. | | | | | | | | |
| 11 | 2 | | W.S.W. | | | | | | | | |
| 12 | 2 | | W.S.W. | | | | | | | | |
| Course. | | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| W.S.W. | | | 123 | 57 | 121 | 4 36 | 4 31 | 15 | 2 01 | 12 00 | 18 17 |

| H. | R. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | | | |
|---------|----|------|----------|------------|------|------------------------------------|-------------|--------|-------------|-----------|--------------|
| 1 | | | W.S.W. | 1/2 | | On Thursday June 2 ^d | | | | | |
| 2 | | | W.S.W. | 1/2 | | For some time breeze and clear | | | | | |
| 3 | | | W.S.W. | | | and weather but barometer failed | | | | | |
| 4 | | | W.S.W. | | | to fall 11 8 at 11 8 the barometer | | | | | |
| 5 | | | W.S.W. | | | was the same about 11 8 that | | | | | |
| 6 | | | W.S.W. | | | showed the barometer was in | | | | | |
| 7 | | | W.S.W. | | | about 11 8 that the barometer | | | | | |
| 8 | | | W.S.W. | | | was in the same position as | | | | | |
| 9 | | | W.S.W. | | | before when they got in | | | | | |
| 10 | | | W.S.W. | | | company other ships who had | | | | | |
| 11 | | | W.S.W. | | | as good a view as we of them | | | | | |
| 12 | | | W.S.W. | | | | | | | | |
| 1 | | | W.S.W. | | | | | | | | |
| 2 | | | W.S.W. | | | | | | | | |
| 3 | | | W.S.W. | | | | | | | | |
| 4 | | | W.S.W. | | | | | | | | |
| 5 | | | W.S.W. | | | | | | | | |
| 6 | | | W.S.W. | | | | | | | | |
| 7 | | | W.S.W. | | | | | | | | |
| 8 | | | W.S.W. | | | | | | | | |
| 9 | | | W.S.W. | | | | | | | | |
| 10 | | | W.S.W. | | | | | | | | |
| 11 | | | W.S.W. | | | | | | | | |
| 12 | | | W.S.W. | | | | | | | | |
| Course. | | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| W.S.W. | | | 115 | 135 | 62 | 3 02 | 3 37 | 12 | 0 02 | 18 19 | 18 20 |

Ship *St. Paul* from *Salem* towards *Hanulka*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | |
|---------|--------|------------|---------------|---------------|--------------|--|-------------|-----------|--------------|
| 1 | 3 | | 17th Nov 1855 | | | Star reef flying, braces and studdent sail set. Weather clear, breeze, S.W. 10 to 12. The boat - Spruce a new one to the London Yard. Carpenters are getting the ship ready for the voyage, got her to his yard the 14th Nov, his Ship and later on found prices in some a bit too dear, but from another source, got the ship off the 1st Dec. there is a small boat and a small boat. I spent three pounds on it, in about as good a one, as I could find a boat for, of the kind I want. But if the boat and crew when he is as high as I am a safe water, and the weather is not so bad for the winter. <i>Logbook.</i> | | | |
| 2 | 3 | | | | | | | | |
| 3 | 3 | | | | | | | | |
| 4 | 3 | | | | | | | | |
| 5 | 3 | | | | | | | | |
| 6 | 3 | | | | | | | | |
| 7 | 3 | | | | | | | | |
| 8 | 3 | | | | | | | | |
| 9 | 3 | | | | | | | | |
| 10 | 3 | | | | | | | | |
| 11 | 3 | | | | | | | | |
| 12 | 3 | | | | | | | | |
| 1 | 3 | | | | | | | | |
| 2 | 3 | | | | | | | | |
| 3 | 3 | | | | | | | | |
| 4 | 3 | | | | | | | | |
| 5 | 3 | | | | | | | | |
| 6 | 3 | | | | | | | | |
| 7 | 3 | | | | | | | | |
| 8 | 3 | | | | | | | | |
| 9 | 3 | | | | | | | | |
| 10 | 3 | | | | | | | | |
| 11 | 3 | | | | | | | | |
| 12 | 3 | | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Obs. | Var. | Diff. Long. | Long. in. | Long. by Ob. |
| 1 | 17 1/2 | 20° | 68 | 034 | 030 | 12 | 169 | 2035 | 2148 |

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|-------|-------|----------|--------|------|----------|
| 1 | 1 | 11/11 | | | 11/11 |
| 2 | 1 | 11/11 | | | 11/11 |
| 3 | 1 | 11/11 | | | 11/11 |
| 4 | 1 | 11/11 | | | 11/11 |
| 5 | 1 | 11/11 | | | 11/11 |
| 6 | 1 | 11/11 | | | 11/11 |
| 7 | 1 | 11/11 | | | 11/11 |
| 8 | 1 | 11/11 | | | 11/11 |
| 9 | 1 | 11/11 | | | 11/11 |
| 10 | 1 | 11/11 | | | 11/11 |
| 11 | 1 | 11/11 | | | 11/11 |
| 12 | 1 | 11/11 | | | 11/11 |
| 1 | 1 | 11/11 | | | 11/11 |
| 2 | 1 | 11/11 | | | 11/11 |
| 3 | 1 | 11/11 | | | 11/11 |
| 4 | 1 | 11/11 | | | 11/11 |
| 5 | 1 | 11/11 | | | 11/11 |
| 6 | 1 | 11/11 | | | 11/11 |
| 7 | 1 | 11/11 | | | 11/11 |
| 8 | 1 | 11/11 | | | 11/11 |
| 9 | 1 | 11/11 | | | 11/11 |
| 10 | 1 | 11/11 | | | 11/11 |
| 11 | 1 | 11/11 | | | 11/11 |
| 12 | 1 | 11/11 | | | 11/11 |

Ship *St. John* from *Saline* towards *Manilla*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|--|
| 1 | 2 | | SE 1/4 E | | | This was fine fair wind & am ple |
| 2 | 2 | | | | | and weather. |
| 3 | 2 | | | | | |
| 4 | 6 | | | | | at home & enough to do is to |
| 5 | 6 | | | | | at a small battle (monter) some 50 |
| 6 | 6 | | SE 1/4 E | | | in the morning (10 days) & then sailed |
| 7 | 6 | | | | | in the morning on a voyage to |
| 8 | 6 | | | | | from Saline to Batavia there |
| 9 | 6 | | | | | to Canton & our there to have |
| 10 | 6 | | | | | two & a half at Suva (Java) |
| 11 | 6 | | | | | on the 11th of June from Harma |
| 12 | 6 | | | | | we went to Batavia, then to |
| 1 | 8 | | | | | Canton, took to Manilla in |
| 2 | 8 | | | | | from there to 1000 leagues |
| 3 | 8 | | | | | in a voyage of 32 months & the |
| 4 | 8 | | | | | in a voyage of 1 year and sailed in |
| 5 | 8 | | | | | the 11th of July in a voyage to |
| 6 | 8 | | | | | 1000 leagues from Saline to |
| 7 | 8 | | | | | 1000 leagues from Saline to |
| 8 | 8 | | | | | 1000 leagues from Saline to |
| 9 | 8 | | | | | 1000 leagues from Saline to |
| 10 | 8 | | | | | 1000 leagues from Saline to |
| 11 | 8 | | | | | 1000 leagues from Saline to |
| 12 | 8 | | | | | 1000 leagues from Saline to |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| SE 1/4 E | 15 | 2.52 | 18 | 4.34 | 5.12 | 12 | 15 | 23.20 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|---------------------------------|
| 1 | 2 | | SE 1/4 E | | | From port to the sea in the |
| 2 | 2 | | | | | the 11th of June from Saline to |
| 3 | 6 | | | | | 1000 leagues from Saline to |
| 4 | 6 | | SE 1/4 E | | | 1000 leagues from Saline to |
| 5 | 6 | | | | | 1000 leagues from Saline to |
| 6 | 6 | | | | | 1000 leagues from Saline to |
| 7 | 6 | | SE 1/4 E | | | 1000 leagues from Saline to |
| 8 | 6 | | | | | 1000 leagues from Saline to |
| 9 | 6 | | | | | 1000 leagues from Saline to |
| 10 | 6 | | | | | 1000 leagues from Saline to |
| 11 | 6 | | | | | 1000 leagues from Saline to |
| 12 | 6 | | | | | 1000 leagues from Saline to |
| 1 | 8 | | SE 1/4 E | | | 1000 leagues from Saline to |
| 2 | 8 | | | | | 1000 leagues from Saline to |
| 3 | 8 | | SE 1/4 E | | | 1000 leagues from Saline to |
| 4 | 8 | | | | | 1000 leagues from Saline to |
| 5 | 8 | | SE 1/4 E | | | 1000 leagues from Saline to |
| 6 | 8 | | | | | 1000 leagues from Saline to |
| 7 | 8 | | SE 1/4 E | | | 1000 leagues from Saline to |
| 8 | 8 | | | | | 1000 leagues from Saline to |
| 9 | 8 | | | | | 1000 leagues from Saline to |
| 10 | 8 | | | | | 1000 leagues from Saline to |
| 11 | 8 | | | | | 1000 leagues from Saline to |
| 12 | 8 | | | | | 1000 leagues from Saline to |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| SE 1/4 E | 15 | 2.27 | 143 | 1.38 | 2.37 | 12 | 1.46 | 23.54 | 23.56 |

36 leagues

Ship *St. Paul* from *Salem* towards *Ward*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | in <i>Sawyer</i> July 2 nd 1855 | | | | | |
|----|----|-------|----------|--------|------------|--|--|-------------|--------|-------------|-----------|--------------|
| 1 | 2 | | St. 14 | | | Clear, very calm, wind fresh breeze | | | | | | |
| 2 | 3 | | | | | and flowers. Clear, calm, sea | | | | | | |
| 3 | 4 | | | | | at 10 to the line, bottom in | | | | | | |
| 4 | 5 | | | | | 10 fms. Clear, away, sea, Royal | | | | | | |
| 5 | 6 | | | | | sea, away | | | | | | |
| 6 | 7 | | St. 14 | | | | | | | | | |
| 7 | 8 | | | | | | | | | | | |
| 8 | 9 | | St. 14 | | | | | | | | | |
| 9 | 10 | 1 | | | | Clear, calm, Breeze in the Bay | | | | | | |
| 10 | 11 | 8 | | | | at 10 to the line, bottom in | | | | | | |
| 11 | 12 | 1 | | | | 13 th 1855, on a rainy forenoon | | | | | | |
| 1 | 2 | | St. 14 | | | Clear, calm, Breeze in the Bay | | | | | | |
| 2 | 3 | | | | | at 10 to the line, bottom in | | | | | | |
| 3 | 4 | | | | | 13 th 1855, on a rainy forenoon | | | | | | |
| 4 | 5 | | | | | Clear, calm, Breeze in the Bay | | | | | | |
| 5 | 6 | 1 | St. 14 | | | at 10 to the line, bottom in | | | | | | |
| 6 | 7 | | | | | 13 th 1855, on a rainy forenoon | | | | | | |
| 7 | 8 | | | | | Clear, calm, Breeze in the Bay | | | | | | |
| 8 | 9 | | St. 14 | | | at 10 to the line, bottom in | | | | | | |
| 9 | 10 | | | | | 13 th 1855, on a rainy forenoon | | | | | | |
| 10 | 11 | 1 | | | | Clear, calm, Breeze in the Bay | | | | | | |
| 11 | 12 | 1 | | | | at 10 to the line, bottom in | | | | | | |
| 12 | 1 | | | | | 13 th 1855, on a rainy forenoon | | | | | | |
| | | | Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| | | | 122 | 182 | 245 | 66 | 17.23 | 1630 | 12 | 1.10 | 2504 | 2534 |

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | in <i>Sawyer</i> July 3 rd 1855 | | | | |
|-------|-------|----------|--------|------|----------|--|--|--|--|--|
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | 1 | | | | | | | | | |
| 10 | 1 | | | | | | | | | |
| 11 | 2 | | | | | | | | | |
| 12 | 1 | | | | | | | | | |
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | 1 | | | | | | | | | |
| 10 | 1 | | | | | | | | | |
| 11 | 1 | | | | | | | | | |
| 12 | 1 | | | | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|--------------|-------------|--------|-------------|-----------|-------------|
| 122 | 185 | 241 | 12 | 13.12 | 1301 | 12 | 1.12 | 2604 | 2710 |

28 July 1855

Ship *W. Paul* from *Saline* towards *Manilla*

H. K. H.K. Courses. Winds. Lee. Remarks. *Thurs. July 4th 1858*

| | | | | | | |
|----|---|---|----------------|--|--|--|
| 1 | 8 | 1 | <i>S 1/2 E</i> | | | <i>Experiences with 18th class and a few small ones and latter part the same as above.</i> |
| 2 | 8 | 1 | | | | |
| 3 | 8 | 1 | | | | |
| 4 | 8 | 1 | | | | |
| 5 | 8 | 1 | | | | |
| 6 | 8 | 1 | | | | |
| 7 | 8 | 1 | | | | <i>arrived at the 15th of May 1858, on the 25th in the ship. I found 4 men & 4 women here we are now on the 4th of July in the latitude of 18° 40' and have since 2nd of Sept. I work for the 4th of Sept. and a pleasant run the crew people of Saline have to meeting, for the 1st of Sept. there will be some thing more than the usual celebrating of 4th of Sept. than 6 sailing school anniversary and 8th of Sept. I have been at</i> |
| 8 | 8 | 1 | | | | |
| 9 | 8 | 1 | | | | |
| 10 | 8 | 1 | | | | |
| 11 | 8 | 1 | | | | |
| 12 | 8 | 1 | | | | |
| 1 | 8 | 1 | <i>S 1/2 E</i> | | | |
| 2 | 8 | 1 | | | | |
| 3 | 8 | 1 | | | | |
| 4 | 8 | 1 | | | | |
| 5 | 8 | 1 | | | | |
| 6 | 8 | 1 | | | | |
| 7 | 8 | 1 | | | | |
| 8 | 8 | 1 | | | | |
| 9 | 8 | 1 | | | | |
| 10 | 8 | 1 | | | | |
| 11 | 8 | 1 | | | | |
| 12 | 8 | 1 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------------|------------|-------------|-----------|---------------|--------------|-----------|-------------|-------------|--------------|
| <i>S 1/2 E</i> | <i>194</i> | <i>3.16</i> | <i>50</i> | <i>16.10</i> | <i>16.31</i> | <i>10</i> | <i>200</i> | <i>2500</i> | |

H. K. H.K. Courses. Winds. Lee. Remarks. *Fri. June July 5th 1858*

| | | | | | | |
|----|---|---|----------------|--|--|--|
| 1 | 8 | 1 | <i>S 1/2 E</i> | | | <i>Experiences with 18th class and a few small ones and latter part the same as above.</i> |
| 2 | 8 | 1 | | | | |
| 3 | 8 | 1 | | | | |
| 4 | 8 | 1 | | | | |
| 5 | 8 | 1 | | | | |
| 6 | 8 | 1 | | | | |
| 7 | 8 | 1 | | | | <i>arrived at the 15th of May 1858, on the 25th in the ship. I found 4 men & 4 women here we are now on the 4th of July in the latitude of 18° 40' and have since 2nd of Sept. I work for the 4th of Sept. and a pleasant run the crew people of Saline have to meeting, for the 1st of Sept. there will be some thing more than the usual celebrating of 4th of Sept. than 6 sailing school anniversary and 8th of Sept. I have been at</i> |
| 8 | 8 | 1 | | | | |
| 9 | 8 | 1 | | | | |
| 10 | 8 | 1 | | | | |
| 11 | 8 | 1 | | | | |
| 12 | 8 | 1 | | | | |
| 1 | 8 | 1 | <i>S 1/2 E</i> | | | |
| 2 | 8 | 1 | | | | |
| 3 | 8 | 1 | | | | |
| 4 | 8 | 1 | | | | |
| 5 | 8 | 1 | | | | |
| 6 | 8 | 1 | | | | |
| 7 | 8 | 1 | | | | |
| 8 | 8 | 1 | | | | |
| 9 | 8 | 1 | | | | |
| 10 | 8 | 1 | | | | |
| 11 | 8 | 1 | | | | |
| 12 | 8 | 1 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------------|------------|-------------|-----------|---------------|--------------|-----------|-------------|-----------|--------------|
| <i>S 1/2 E</i> | <i>122</i> | <i>3.08</i> | <i>44</i> | <i>18.40</i> | <i>18.55</i> | <i>10</i> | <i>045</i> | | <i>22.12</i> |

29 28 6
40

Ship *St. V.* from *Salon* towards *Manilla*

[illegible][illegible]

Edw. C. C.

Ship *St. Louis* from *Silene* towards *Hanilla*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|-----------------------------------|
| 1 | 8 | | South | SE | | Commenced firing at 10:00 AM. The |
| 2 | 8 | | | | | enemy's position. The ship was |
| 3 | 8 | | SE | | | seen for the first time. The |
| 4 | 8 | | | | | enemy's position was |
| 5 | 8 | | SE | | | seen for the first time. The |
| 6 | 8 | | | | | enemy's position was |
| 7 | 8 | | SE | | | seen for the first time. The |
| 8 | 8 | | | | | enemy's position was |
| 9 | 8 | | SE | | | seen for the first time. The |
| 10 | 8 | | | | | enemy's position was |
| 11 | 8 | | SE | | | seen for the first time. The |
| 12 | 8 | | | | | enemy's position was |
| 1 | 8 | | SE | | | seen for the first time. The |
| 2 | 8 | | | | | enemy's position was |
| 3 | 8 | | SE | | | seen for the first time. The |
| 4 | 8 | | | | | enemy's position was |
| 5 | 8 | | SE | | | seen for the first time. The |
| 6 | 8 | | | | | enemy's position was |
| 7 | 8 | | SE | | | seen for the first time. The |
| 8 | 8 | | | | | enemy's position was |
| 9 | 8 | | SE | | | seen for the first time. The |
| 10 | 8 | | | | | enemy's position was |
| 11 | 8 | | SE | | | seen for the first time. The |
| 12 | 8 | | | | | enemy's position was |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | V. or | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| 155 | 115 | 2.7 | 114 | 27.54 | 27.54 | 7 | 2.41 | 2022 | 2015 |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|-----------------------------------|
| 1 | 8 | | SE | | | Commenced firing at 10:00 AM. The |
| 2 | 8 | | | | | enemy's position. The ship was |
| 3 | 8 | | SE | | | seen for the first time. The |
| 4 | 8 | | | | | enemy's position was |
| 5 | 8 | | SE | | | seen for the first time. The |
| 6 | 8 | | | | | enemy's position was |
| 7 | 8 | | SE | | | seen for the first time. The |
| 8 | 8 | | | | | enemy's position was |
| 9 | 8 | | SE | | | seen for the first time. The |
| 10 | 8 | | | | | enemy's position was |
| 11 | 8 | | SE | | | seen for the first time. The |
| 12 | 8 | | | | | enemy's position was |
| 1 | 8 | | SE | | | seen for the first time. The |
| 2 | 8 | | | | | enemy's position was |
| 3 | 8 | | SE | | | seen for the first time. The |
| 4 | 8 | | | | | enemy's position was |
| 5 | 8 | | SE | | | seen for the first time. The |
| 6 | 8 | | | | | enemy's position was |
| 7 | 8 | | SE | | | seen for the first time. The |
| 8 | 8 | | | | | enemy's position was |
| 9 | 8 | | SE | | | seen for the first time. The |
| 10 | 8 | | | | | enemy's position was |
| 11 | 8 | | SE | | | seen for the first time. The |
| 12 | 8 | | | | | enemy's position was |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | V. or | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| 104 | 892 | 1.53 | 123 | 29.09 | 29.09 | 7 | 3.15 | 2800 | 2806 |

44 days and

Ship from *Station* towards *Manilla*

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|-------|-------|----------|--------|------|---|
| 1 | 8 | | | | Commenced 1st day, breeze and fine weather. |
| 2 | 8 | | | | Light breeze and fine weather. |
| 3 | 8 | | | | |
| 4 | 8 | | | | |
| 5 | 8 | | | | |
| 6 | 8 | | | | |
| 7 | 8 | | | | Morning squalls with rain, the ship's sail and light sails. |
| 8 | 8 | | | | |
| 9 | 8 | | | | Forward, used for sailing the ship's sail and light sails. |
| 10 | 8 | | | | |
| 11 | 8 | | | | The sailing fore and aft, the ship's sail and light sails. |
| 12 | 8 | | | | 1st day, the ship's sail and light sails. |
| 1 | 8 | | | | 2nd day, the ship's sail and light sails. |
| 2 | 8 | | | | 3rd day, the ship's sail and light sails. |
| 3 | 8 | | | | 4th day, the ship's sail and light sails. |
| 4 | 8 | | | | 5th day, the ship's sail and light sails. |
| 5 | 8 | | | | 6th day, the ship's sail and light sails. |
| 6 | 8 | | | | 7th day, the ship's sail and light sails. |
| 7 | 8 | | | | 8th day, the ship's sail and light sails. |
| 8 | 8 | | | | 9th day, the ship's sail and light sails. |
| 9 | 8 | | | | 10th day, the ship's sail and light sails. |
| 10 | 8 | | | | 11th day, the ship's sail and light sails. |
| 11 | 8 | | | | 12th day, the ship's sail and light sails. |
| 12 | 8 | | | | 13th day, the ship's sail and light sails. |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|

1st 8 112 1.18 175 32.27 10 3.25 19.39 10

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|-------|-------|----------|--------|------|----------|
|-------|-------|----------|--------|------|----------|

| | | | | | |
|----|---|--|--|--|---|
| 1 | 8 | | | | Commenced 1st day, breeze and fine weather. |
| 2 | 8 | | | | 2nd day, the ship's sail and light sails. |
| 3 | 8 | | | | 3rd day, the ship's sail and light sails. |
| 4 | 8 | | | | 4th day, the ship's sail and light sails. |
| 5 | 8 | | | | 5th day, the ship's sail and light sails. |
| 6 | 8 | | | | 6th day, the ship's sail and light sails. |
| 7 | 2 | | | | 7th day, the ship's sail and light sails. |
| 8 | 1 | | | | 8th day, the ship's sail and light sails. |
| 9 | 1 | | | | 9th day, the ship's sail and light sails. |
| 10 | 3 | | | | 10th day, the ship's sail and light sails. |
| 11 | 3 | | | | 11th day, the ship's sail and light sails. |
| 12 | 3 | | | | 12th day, the ship's sail and light sails. |
| 1 | 4 | | | | 13th day, the ship's sail and light sails. |
| 2 | 4 | | | | 14th day, the ship's sail and light sails. |
| 3 | 4 | | | | 15th day, the ship's sail and light sails. |
| 4 | 4 | | | | 16th day, the ship's sail and light sails. |
| 5 | 4 | | | | 17th day, the ship's sail and light sails. |
| 6 | 4 | | | | 18th day, the ship's sail and light sails. |
| 7 | 4 | | | | 19th day, the ship's sail and light sails. |
| 8 | 4 | | | | 20th day, the ship's sail and light sails. |
| 9 | 4 | | | | 21st day, the ship's sail and light sails. |
| 10 | 4 | | | | 22nd day, the ship's sail and light sails. |
| 11 | 4 | | | | 23rd day, the ship's sail and light sails. |
| 12 | 4 | | | | 24th day, the ship's sail and light sails. |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|

1st 8 88 19 55 30.42 12 1.30 17.58

Ship *Stoughton* from *Holm* towards *Marilla*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 1 | 1 | 1 | 1 | | |
| 2 | 1 | 1 | 1 | 1 | | |
| 3 | 1 | 1 | 1 | 1 | | |
| 4 | 1 | 1 | 1 | 1 | | |
| 5 | 1 | 1 | 1 | 1 | | |
| 6 | 1 | 1 | 1 | 1 | | |
| 7 | 1 | 1 | 1 | 1 | | |
| 8 | 1 | 1 | 1 | 1 | | |
| 9 | 1 | 1 | 1 | 1 | | |
| 10 | 1 | 1 | 1 | 1 | | |
| 11 | 1 | 1 | 1 | 1 | | |
| 12 | 1 | 1 | 1 | 1 | | |
| 1 | 1 | 1 | 1 | 1 | | |
| 2 | 1 | 1 | 1 | 1 | | |
| 3 | 1 | 1 | 1 | 1 | | |
| 4 | 1 | 1 | 1 | 1 | | |
| 5 | 1 | 1 | 1 | 1 | | |
| 6 | 1 | 1 | 1 | 1 | | |
| 7 | 1 | 1 | 1 | 1 | | |
| 8 | 1 | 1 | 1 | 1 | | |
| 9 | 1 | 1 | 1 | 1 | | |
| 10 | 1 | 1 | 1 | 1 | | |
| 11 | 1 | 1 | 1 | 1 | | |
| 12 | 1 | 1 | 1 | 1 | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | 27 | 1.16 | 5 | 32.12 | 32.12 | 11 | 10 | 12.45 | 12.45 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 1 | 1 | 1 | 1 | | |
| 2 | 1 | 1 | 1 | 1 | | |
| 3 | 1 | 1 | 1 | 1 | | |
| 4 | 1 | 1 | 1 | 1 | | |
| 5 | 1 | 1 | 1 | 1 | | |
| 6 | 1 | 1 | 1 | 1 | | |
| 7 | 1 | 1 | 1 | 1 | | |
| 8 | 1 | 1 | 1 | 1 | | |
| 9 | 1 | 1 | 1 | 1 | | |
| 10 | 1 | 1 | 1 | 1 | | |
| 11 | 1 | 1 | 1 | 1 | | |
| 12 | 1 | 1 | 1 | 1 | | |
| 1 | 1 | 1 | 1 | 1 | | |
| 2 | 1 | 1 | 1 | 1 | | |
| 3 | 1 | 1 | 1 | 1 | | |
| 4 | 1 | 1 | 1 | 1 | | |
| 5 | 1 | 1 | 1 | 1 | | |
| 6 | 1 | 1 | 1 | 1 | | |
| 7 | 1 | 1 | 1 | 1 | | |
| 8 | 1 | 1 | 1 | 1 | | |
| 9 | 1 | 1 | 1 | 1 | | |
| 10 | 1 | 1 | 1 | 1 | | |
| 11 | 1 | 1 | 1 | 1 | | |
| 12 | 1 | 1 | 1 | 1 | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | 140 | 2.00 | 70 | 34.02 | 34.02 | 11 | 1.24 | 16.24 | 16.24 |

from

Subson towards, Hermita

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|--------------------------------------|
| | | | | | | 11 Sunday July 14 th 1855 |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|-------|-------------|-----------|--------------|
| 172° | 16.5 | 37 | 168 | 34.37 | 54.10 | 12 | 3.13 | 18.11 | 3.5.14.5 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------------------------------|
| | | | | | | Continued. 15 th 1852 |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|--------------|-------------|--------|-------------|-----------|-------------|
| 1996 | 262 | 39 | 178 | 8638 | 8456 | 12 | 4.02 | 9.49 | 10.10 |

50 Days but

Ship *W. L. L.* from *Salem* towards *Wenilla*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | In Seasons July 18th | | | | | | | | | |
|----|----|------|-------------|--------|------|---|----------------------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | 8 | | S. E. North | | | Came over with shore breeze and breeze after. 178 fathoms in the top of the tide. Even the same as above. Five to six the S. E. breeze did not blow. There was a strong breeze from the S. E. and the weather being breezy and there was beautiful them. We played off there with a boat and in the boat in the shot and the wind was what the S. E. breeze was a strong breeze and there was fine of hauls along the side of the ship. Once or twice this is year of this sailing in this way of the S. E. breeze in the S. E. breeze | | | | | | | | | | |
| 2 | 8 | | | | | | | | | | | | | | | |
| 3 | 8 | | | | | | | | | | | | | | | |
| 4 | 8 | | | | | | | | | | | | | | | |
| 5 | 8 | | | | | | | | | | | | | | | |
| 6 | 8 | | | | | | | | | | | | | | | |
| 7 | 8 | | | | | | | | | | | | | | | |
| 8 | 8 | | | | | | | | | | | | | | | |
| 9 | 8 | | | | | | | | | | | | | | | |
| 10 | 8 | | | | | | | | | | | | | | | |
| 11 | 8 | | | | | | | | | | | | | | | |
| 12 | 8 | | | | | | | | | | | | | | | |
| 1 | 8 | | S. E. North | | | Came over with shore breeze and breeze after. 178 fathoms in the top of the tide. Even the same as above. Five to six the S. E. breeze did not blow. There was a strong breeze from the S. E. and the weather being breezy and there was beautiful them. We played off there with a boat and in the boat in the shot and the wind was what the S. E. breeze was a strong breeze and there was fine of hauls along the side of the ship. Once or twice this is year of this sailing in this way of the S. E. breeze in the S. E. breeze | | | | | | | | | | |
| 2 | 8 | | | | | | | | | | | | | | | |
| 3 | 8 | | | | | | | | | | | | | | | |
| 4 | 8 | | | | | | | | | | | | | | | |
| 5 | 8 | | | | | | | | | | | | | | | |
| 6 | 8 | | | | | | | | | | | | | | | |
| 7 | 8 | | | | | | | | | | | | | | | |
| 8 | 8 | | | | | | | | | | | | | | | |
| 9 | 8 | | | | | | | | | | | | | | | |
| 10 | 8 | | | | | | | | | | | | | | | |
| 11 | 8 | | | | | | | | | | | | | | | |
| 12 | 8 | | | | | | | | | | | | | | | |
| | | | | | | | Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| | | | | | | | 180° | 210 | 41 | 206 | 35.37 | 32.32 | 7° | 41 | 458 | 5.58 |

| H. | R. | H.K. | Courses. | Winds. | Lcc. | Remarks. | | | |
|---------|-------|------------|-------------|---------------|-------------|---|-------------|-----------|--------------|
| 1 | 8 | | S. E. North | | | Came over with shore breeze and | | | |
| 2 | 8 | | | | | breeze after. 178 fathoms | | | |
| 3 | 8 | | | | | in the top of the tide. Even | | | |
| 4 | 8 | | | | | the same as above. | | | |
| 5 | 8 | 1 | | | | Five to six the S. E. breeze | | | |
| 6 | 8 | 1 | | | | did not blow. There was a | | | |
| 7 | 8 | | | | | strong breeze from the | | | |
| 8 | 8 | 1 | | | | S. E. and the weather being | | | |
| 9 | 8 | 1 | | | | breezy and there was beautiful | | | |
| 10 | 8 | 1 | | | | them. We played off there with | | | |
| 11 | 8 | 1 | | | | a boat and in the boat in the | | | |
| 12 | 8 | 1 | | | | shot and the wind was what | | | |
| 1 | 10 | | S. E. North | | | the S. E. breeze was a strong | | | |
| 2 | 10 | | | | | breeze and there was fine | | | |
| 3 | 10 | | | | | of hauls along the side of | | | |
| 4 | 10 | | | | | the ship. Once or twice this is | | | |
| 5 | 10 | 1 | | | | year of this sailing in this way | | | |
| 6 | 10 | 1 | | | | of the S. E. breeze in the S. E. breeze | | | |
| 7 | 10 | 1 | | | | | | | |
| 8 | 10 | 1 | | | | | | | |
| 9 | 10 | 1 | | | | | | | |
| 10 | 10 | 1 | | | | | | | |
| 11 | 10 | 1 | | | | | | | |
| 12 | 10 | 1 | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| 172° | 231 | 1.10 | 214 | 36.50 | 34.58 | 18° | 4.51 | 421 | 1.54 |

Ship *the* *and* from *S. 100* towards *Manilla*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|-----------------|-----------|--------------|-------------|----------------|-------------|-----------|-------------|------------|--------------|
| <i>S 7° 30'</i> | <i>27</i> | <i>12 20</i> | <i>2 15</i> | <i>11° 15'</i> | | <i>2°</i> | <i>4.30</i> | <i>403</i> | <i>in 6</i> |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|--------------|----------|------------|-----------|---------------|-------------|-----------|-------------|------------|--------------|
| <i>S 76°</i> | <i>1</i> | <i>25</i> | <i>47</i> | <i>77.56</i> | <i>N 11</i> | <i>21</i> | <i>2.11</i> | <i>204</i> | <i>S 11</i> |

Ship *Leviathan* from *Saturn* towards *Minilla*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|--------------------------------|
| 1 | 1 | | 064 | South | 21 | How much the ship is |
| 2 | 1 | | | | | Squad. 11 1/2. 11 1/2. 11 1/2. |
| 3 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 4 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 5 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 6 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 7 | 1 | | 118 | | | Minilla for name is shown |
| 8 | 1 | | | | | At 6 1/2 the ship the (C) is |
| 9 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 10 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 11 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 12 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 1 | 1 | | 118 | | | 11 1/2. 11 1/2. 11 1/2. |
| 2 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 3 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 4 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 5 | 1 | | 140 | | | 11 1/2. 11 1/2. 11 1/2. |
| 6 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 7 | 1 | | 116 | | | 11 1/2. 11 1/2. 11 1/2. |
| 8 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 9 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 10 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 11 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 12 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 142 | 103 | 115 | 21 | 36 21 | 1066 | 22 | 122 | 7.31 | 142 |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|-------------------------|
| 1 | 1 | | 064 | South | 21 | How much the ship is |
| 2 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 3 | 1 | | 118 | | | 11 1/2. 11 1/2. 11 1/2. |
| 4 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 5 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 6 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 7 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 8 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 9 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 10 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 11 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 12 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 1 | 1 | | 118 | | | 11 1/2. 11 1/2. 11 1/2. |
| 2 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 3 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 4 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 5 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 6 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 7 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 8 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 9 | 1 | | 142 | | | 11 1/2. 11 1/2. 11 1/2. |
| 10 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 11 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |
| 12 | 1 | | | | | 11 1/2. 11 1/2. 11 1/2. |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 142 | 103 | 115 | 21 | 36 21 | 1066 | 22 | 122 | 7.31 | 142 |

Ship St Paul from Baltimore towards Manila

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|------------------------------------|
| 1 | 6 | | SE | SE | | Sea in view at 10 miles with a |
| 2 | 6 | | | | | hazy sea and a few ships at |
| 3 | 6 | | | | | the distance. At 10 miles |
| 4 | 6 | | | | | the ship was in sight. |
| 5 | 6 | | | | | At 10 miles the ship was in sight. |
| 6 | 6 | | | | | At 10 miles the ship was in sight. |
| 7 | 6 | | | | | At 10 miles the ship was in sight. |
| 8 | 6 | | | | | At 10 miles the ship was in sight. |
| 9 | 6 | | | | | At 10 miles the ship was in sight. |
| 10 | 6 | | | | | At 10 miles the ship was in sight. |
| 11 | 6 | | | | | At 10 miles the ship was in sight. |
| 12 | 6 | | | | | At 10 miles the ship was in sight. |
| 1 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 2 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 3 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 4 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 5 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 6 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 7 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 8 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 9 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 10 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 11 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 12 | 6 | 1 | | | | At 10 miles the ship was in sight. |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| SE | 171 | 1.05 | 180 | 32.35 | 16.1 | 25 | 3.45 | 17.1 | 16.1 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|------------------------------------|
| 1 | 6 | | SE | SE | | Sea in view at 10 miles with a |
| 2 | 6 | | | | | hazy sea and a few ships at |
| 3 | 6 | | | | | the distance. At 10 miles |
| 4 | 6 | | | | | the ship was in sight. |
| 5 | 6 | | | | | At 10 miles the ship was in sight. |
| 6 | 6 | | | | | At 10 miles the ship was in sight. |
| 7 | 6 | | | | | At 10 miles the ship was in sight. |
| 8 | 6 | | | | | At 10 miles the ship was in sight. |
| 9 | 6 | | | | | At 10 miles the ship was in sight. |
| 10 | 6 | | | | | At 10 miles the ship was in sight. |
| 11 | 6 | | | | | At 10 miles the ship was in sight. |
| 12 | 6 | | | | | At 10 miles the ship was in sight. |
| 1 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 2 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 3 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 4 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 5 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 6 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 7 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 8 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 9 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 10 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 11 | 6 | 1 | | | | At 10 miles the ship was in sight. |
| 12 | 6 | 1 | | | | At 10 miles the ship was in sight. |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| SE | 153 | 33 | 112 | 36.21 | 30.20 | 25 | 3.09 | 17.1 | 30.20 |

55 100 out 36.21 11.34

Ship from *Salomon* towards *Manilla*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 8 | | SE | 1/2 | | ... |
| 2 | 8 | | | | | ... |
| 3 | 8 | | | | | ... |
| 4 | 8 | | | | | ... |
| 5 | 8 | | | | | ... |
| 6 | 8 | | | | | ... |
| 7 | 8 | | | | | ... |
| 8 | 8 | | | | | ... |
| 9 | 8 | | | | | ... |
| 10 | 8 | | | | | ... |
| 11 | 8 | | | | | ... |
| 12 | 8 | | | | | ... |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by B. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|------------|-------------|--------|-------------|-----------|--------------|
| SE | 210 | 21 | 2 | 84.02 | | 24 | 420 | 15.54 | 15.38 |

Ship from *Manilla* towards *Salomon*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 8 | | SE | 1/2 | | ... |
| 2 | 8 | | | | | ... |
| 3 | 8 | | | | | ... |
| 4 | 8 | | | | | ... |
| 5 | 8 | | | | | ... |
| 6 | 8 | | | | | ... |
| 7 | 8 | | | | | ... |
| 8 | 8 | | | | | ... |
| 9 | 8 | | | | | ... |
| 10 | 8 | | | | | ... |
| 11 | 8 | | | | | ... |
| 12 | 8 | | | | | ... |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by B. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|------------|-------------|--------|-------------|-----------|--------------|
| SE | 229 | 24 | 21 | 38.24 | 38.02 | 26 | 435 | 22.29 | 22.29 |

38.24 22.29

Ship from *London* towards *Manilla*

| K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|-------|----------|--------|------|----------|
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1816 | 223 | 2.5 | 223 | 50.5 | 39.54 | 21 | 4.43 | 2917 | 25.53 |

H. K. H. K. Courses. Winds. Lee. Remarks. *on Saturday July 27th 1839*

| | | | | | | | | | |
|----|--|--|--|--|--|--|--|--|--|
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
| 1 | | | | | | | | | |
| 2 | | | | | | | | | |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |
| 5 | | | | | | | | | |
| 6 | | | | | | | | | |
| 7 | | | | | | | | | |
| 8 | | | | | | | | | |
| 9 | | | | | | | | | |
| 10 | | | | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1836 | 141 | 12 | 141 | 35.11 | 25.53 | 50 | 2.55 | 5218 | 21.50 |

62 see next

from *San Pedro* towards *Manila*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 8 | | | | | |
| 2 | 2 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |
| 1 | 8 | | | | | |
| 2 | 8 | | | | | |
| 3 | 8 | | | | | |
| 4 | 8 | | | | | |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|------------|------------|------------|------------|---------------|-------------|-----------|-------------|-------------|--------------|
| <i>107</i> | <i>111</i> | <i>1.1</i> | <i>128</i> | <i>34.19</i> | <i>34.2</i> | <i>31</i> | <i>2.42</i> | <i>1944</i> | <i>1946</i> |

on *Manila* Feb 28th 1838

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 8 | | | | | |
| 2 | 8 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |
| 1 | 8 | | | | | |
| 2 | 8 | | | | | |
| 3 | 8 | | | | | |
| 4 | 8 | | | | | |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|------------|------------|------------|------------|---------------|-------------|-----------|-------------|-------------|--------------|
| <i>107</i> | <i>265</i> | <i>31</i> | <i>211</i> | <i>39.28</i> | <i>39.3</i> | <i>28</i> | <i>4.19</i> | <i>1908</i> | <i>1908</i> |

64 days out

Ship *S. and* from *Salina* towards *Manilla*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | On Sunday July 28 th | | | | |
|---------|-------|------------|----------|---------------|-------------|----------|--|-----------|--------------|--|--|
| 1 | 1 | | | | | | <p>Longer was with Spinn. used Taping & other things. having much water. At 6 P.M. in the afternoon 1/2 gale from S.W. and they to reach the Salina was about the S. of W. 1/4. The water for the the Harbours. however, from 1/2 gale. The wind on the land.</p> <p>On Monday July 29th a heavy rain. The wind from in the morning from S.W. next I have not seen any more of the ship and cannot find out where it is. It is said that it is in the Harbours.</p> | | | | |
| 2 | 1 | | | | | | | | | | |
| 3 | 1 | | | | | | | | | | |
| 4 | 1 | | | | | | | | | | |
| 5 | 1 | | | | | | | | | | |
| 6 | 1 | | | | | | | | | | |
| 7 | 1 | | | | | | | | | | |
| 8 | 1 | | | | | | | | | | |
| 9 | 1 | | | | | | | | | | |
| 10 | 1 | | | | | | | | | | |
| 11 | 1 | | | | | | | | | | |
| 12 | 1 | | | | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | | |
| 170 | 200 | 55 | 170 | 40 18 45 | 20 | 4 | 16 45 | 22 35 | 14 | | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | On Tuesday July 31 st | | | | |
|---------|-------|------------|----------|---------------|-------------|----------|---|-----------|--------------|--|--|
| 1 | 1 | | | | | | <p>The ship was with Spinn. used Taping & other things. having much water. At 6 P.M. in the afternoon 1/2 gale from S.W. and they to reach the Salina was about the S. of W. 1/4. The water for the the Harbours. however, from 1/2 gale. The wind on the land.</p> <p>On Wednesday July 31st a heavy rain. The wind from in the morning from S.W. next I have not seen any more of the ship and cannot find out where it is. It is said that it is in the Harbours.</p> | | | | |
| 2 | 1 | | | | | | | | | | |
| 3 | 1 | | | | | | | | | | |
| 4 | 1 | | | | | | | | | | |
| 5 | 1 | | | | | | | | | | |
| 6 | 1 | | | | | | | | | | |
| 7 | 1 | | | | | | | | | | |
| 8 | 1 | | | | | | | | | | |
| 9 | 1 | | | | | | | | | | |
| 10 | 1 | | | | | | | | | | |
| 11 | 1 | | | | | | | | | | |
| 12 | 1 | | | | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | | |
| 170 | 126 | 24 | 123 | 40 10 | 40 48 | 28 | 2 43 | 6 05 | 41 12 | | |

601. 11

from *Saline* towards *Huila*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 1 | | | | | |
| 2 | 3 | | | | | |
| 3 | 3 | | | | | |
| 4 | 2 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | | | | |
| 7 | 2 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |
| 1 | 6 | | | | | |
| 2 | 6 | | | | | |
| 3 | 3 | | | | | |
| 4 | 6 | | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 4836 | 113 | 23 | 10 | 40.08 | 40.37 | 25 | 2.21 | 264430 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 1 | | | | | |
| 2 | 3 | | | | | |
| 3 | 3 | | | | | |
| 4 | 2 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | | | | |
| 7 | 2 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |
| 1 | 6 | | | | | |
| 2 | 6 | | | | | |
| 3 | 3 | | | | | |
| 4 | 6 | | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1750 | 140 | 52 | 135 | 40.03 | 39.41 | 22 | 2.57 | 1234838 | |

65 Tacuila

117 from *Leten* towards *Sanella*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 112 | 112 | 1.06 | 1.2 | 33.57 | 34 | 27 | 3.54 | 15.19 | 52.83 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
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| 10 | 1 | | | | | |
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| 12 | 1 | | | | | |
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
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| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 111 | 111 | 1.1 | 1.08 | 33.58 | 34.12 | 27 | 3.15 | 15.32 | 51.97 |

118

towards

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|------------------------|
| 1 | 1 | | | | | 11 Nov 1858. Dec 8 '59 |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |
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| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. (a.) | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|------------|--------------|
| 157° | 112 | 16 | 121 | 33 22 | | 15 | 4.5 | 61.35 | |

| H. | R. | I.L.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|--------|----------|--------|------|----------|
| 1 | 8 | | | | | |
| 2 | 8 | | | | | |
| 3 | 8 | | | | | |
| 4 | 8 | | | | | |
| 5 | 7 | | | | | |
| 6 | 7 | | | | | |
| 7 | 7 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |
| 1 | 4 | | | | | |
| 2 | 4 | | | | | |
| 3 | 4 | | | | | |
| 4 | 4 | | | | | |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1856 | 125 | 47 | 176 | 32 49 | 32 16 | 23 | 3. 22 | 165 9 | 161 45 |

120000

1871 10 24 from *St. John* towards *St. Michael*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | | | | | | |
|---------|----|-------|----------|--------|------|----------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | | | 1000 | 10 | | 4.10 | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | |
| 5 | | | 10 | | | 4.10 | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | | | | |
| Course. | | | | | | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| 1000 | | | | | | | 170 | 16 | 112 | 42.24 | 42.18 | 2 | 2.42 | 155.57 | 155.57 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | | | | | | |
|---------|----|-------|----------|--------|------|----------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | | | 1000 | 10 | | 4.10 | | | | | | | | | |
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| 12 | | | | | | | | | | | | | | | |
| Course. | | | | | | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| 1500 | | | | | | | 115 | 22 | 115 | 52.45 | 52.50 | 25 | 2.57 | 140.00 | 140.00 |

from *St. Louis* towards *St. Louis*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
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| 10 | / | / | | | | |
| 11 | / | / | | | | |
| 12 | / | / | | | | |
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| 10 | / | / | | | | |
| 11 | / | / | | | | |
| 12 | / | / | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 154 | 21 | 27 | 2 | 154 | 154 | 22 | 152 | 22 | 152 |

H. K. H.K. Courses. Winds. Lec. Remarks.

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| 12 | / | / | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 154 | 154 | 27 | 1 | 154 | 154 | 22 | 152 | 22 | 152 |

St. Louis

from Salome towards Manila

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|-------|-------|----------|--------|------|----------|
| 1 | | | | | 11/11/18 |
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| 12 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 4 | 174 | 1 | 174 | 56.16 | 56.17 | 17 | 3.44 | 3.21 | 91.51 |

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|-------|-------|----------|--------|------|----------|
| 1 | | | | | 11/11/18 |
| 2 | | | | | |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 174 | 175 | 4 | 165 | 56.21 | 56.15 | 17 | 3.37 | 8.58 | 91.20 |

High 11. 1/2 from *Lat. 11. 1/2* towards *Harbour*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
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| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | 30 | 15 | 125 | 10 | 10 | 11 | 3 | 4 | 32 |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
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| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |

10 1/2

Ship "Ant" from *Delaware* towards *Shenandoah*

| H. | K. | H. K. | Courses. | Wind. | Lee | Remarks. |
|----|----|-------|----------|-------|-----|---|
| 1 | | | 1000 | SE | | At anchor in 23 fms from shore in the morning |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | 1000 | | | At anchor in 23 fms from shore in the morning |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
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| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|-------------|
| 1000 | 216 | 2.24 | 1.5 | 22. 53 | 27. 10 | 5.15 | 97.18 | 6.61 | |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|---|
| 1 | | | 1000 | SE | | At anchor in 23 fms from shore in the morning |
| 2 | | | | | | |
| 3 | | | | | | |
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| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|-------------|
| 1000 | 168 | 1.52 | 1.25 | 30. 37 | 30. 29 | 5 | 2.25 | 4.48 | 28 |

12 up out

Ship *W. B. 27* from *Salem* towards *Winella*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
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| 1 | | | 16 | 168 | | |
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| 11 | | | | | | |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
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| 16 | 126 | 1.22 | 56 | 1 | 1.25 | 1 | 2.10 | 102.55 | 100.25 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 16 | 165 | 1.27 | 11 | 2 | 1.18 | 1 | 2.10 | 102.55 | 100.25 |

10 days

from *London* *towards* *Martha*

| H. | K. | H. K. | Courses. | Wind. | Lee | Remarks. | <i>St. Helena 11th 1848</i> | | | | |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | | |
| <i>140</i> | <i>141</i> | <i>2 1/2</i> | <i>34</i> | <i>25 17 25</i> | <i>1</i> | | <i>33</i> | <i>152</i> | <i>102.35</i> | | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | <i>St. Helena 20th 1848</i> | | | | |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | | |
| <i>106</i> | <i>70</i> | <i>1.07</i> | <i>12</i> | <i>24. 10 28</i> | <i>2</i> | | <i>21</i> | <i>151 8</i> | <i>102.55</i> | | |

St. Helena

from

towards

| from | | | | | | towards | | | | | |
|------|----|------|----------|--------|------|--|--|--|--|--|--|
| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. | | | | | |
| 1 | 3 | 1 | 116 | East | | Commenced with fine weather | | | | | |
| 2 | 3 | 1 | | | | and fair at 4 o'clock | | | | | |
| 3 | 3 | 1 | | | | H. 11. | | | | | |

S. J. Day Out

| Ship <i>St. Paul</i> from <i>Salem</i> towards <i>Havanna</i> | | | | | | | | | | |
|---|-------|------------|----------|---------------|-------------|----------|-------------|-----------|--------------|--|
| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | |
| | 11 | | | 21.9 | | | 30 | 1.48 | | |
| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | |
| 0. 37 | 62 | 1.2 | | 26.56 | 30 | | | 1.64 | 7.54 | |

from *San Juan* towards *Manilla*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
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| 100 | 100 | 1.17 | 11 | 13 11 | 13 16 | | 4 | 103 11 | |

| H. | K. | H.K. | Courses. | Winds. | Lcc. | Remarks. |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
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| 190 | 210 | 5.03 | 34 | 15 10 | 15 20 | 5 | 36 | 102 | 102 |

from *Swan* towards *Manilla*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|-------------|
| 118 | 222 | 37 | 31 | 11.461 | 1 | 2 | 39 | 118.4 | 115.11 |

H. K. H. K. Courses. Winds. Lee. Remarks.

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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
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| 138 | 216 | 33 | 11 | 5 31 | 32 | 10 | 12 | 118.4 | 105.2 |

Ship *Le Duc* from *Saline* towards *Manille*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
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Le Duc at anchor at *Manille* 17th day

Ship from *Saline* towards *Havilla*

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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
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| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
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| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|------------------------------------|
| 1 | 3 | | | | | Commenced with light breeze from |
| 2 | 3 | | | | | the westward and clear weather |
| 3 | 3 | | | | | at 10 P.M. |
| 4 | 4 | | | | | At 11 P.M. the bar fell to 29.5 |
| 5 | 4 | | | | | set from the S.W. to the S. and |
| 6 | 4 | | | | | about 11 P.M. the bar fell to 29.5 |
| 7 | 5 | | | | | and the wind shifted to the S.W. |
| 8 | 5 | | | | | and the wind shifted to the S.W. |
| 9 | 5 | | | | | and the wind shifted to the S.W. |
| 10 | 5 | | | | | and the wind shifted to the S.W. |
| 11 | 5 | | | | | and the wind shifted to the S.W. |
| 12 | 5 | | | | | and the wind shifted to the S.W. |
| 1 | 5 | | | | | and the wind shifted to the S.W. |
| 2 | 5 | | | | | and the wind shifted to the S.W. |
| 3 | 5 | | | | | and the wind shifted to the S.W. |
| 4 | 5 | | | | | and the wind shifted to the S.W. |
| 5 | 5 | | | | | and the wind shifted to the S.W. |
| 6 | 5 | | | | | and the wind shifted to the S.W. |
| 7 | 5 | | | | | and the wind shifted to the S.W. |
| 8 | 5 | | | | | and the wind shifted to the S.W. |
| 9 | 5 | | | | | and the wind shifted to the S.W. |
| 10 | 5 | | | | | and the wind shifted to the S.W. |
| 11 | 5 | | | | | and the wind shifted to the S.W. |
| 12 | 5 | | | | | and the wind shifted to the S.W. |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
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12-1-1

from *Lyons* towards *Hamm*

[illegible]

Exprom. Gerson

146. 11. 24 from *Salomon* towards *Maricao*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|---------|------|--------------------------------|
| 1 | 2 | | 115 | fair | | From 100 fathoms depth |
| 2 | 1 | | | | | up to the bottom. The bottom |
| 3 | 1 | | | | | was 40 fathoms and latter part |
| 4 | 1 | | | | | the same as above. |
| 5 | 3 | | latins | | | |
| 6 | 3 | | | | | |
| 7 | 2 | | 115 | | | It is a hot steam |
| 8 | 2 | | 115 | | | happy to see more Ben |
| 9 | 2 | | | | | |
| 10 | 3 | | | | | |
| 11 | 2 | | | | | |
| 12 | 2 | | | | | |
| 1 | 3 | | latins | | | |
| 2 | 3 | | | | | |
| 3 | 1 | | 115 | diffing | | |
| 4 | 1 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | | | | |
| 7 | 3 | | latins | | | |
| 8 | 3 | | | | | |
| 9 | 2 | | | | | |
| 10 | 2 | | | | | |
| 11 | 3 | | | | | |
| 12 | 2 | | | | | |

[illegible]

From Hope

166 24/10/11

Ship from Chelone towards Enger

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|---|----|-------|----------|--------|------|-----------------------|
| 1 | | | 160 | SE | | Leaving port at 10 AM |
| 2 | 1 | | 160 | SE | | Running on course |
| 3 | 1 | | 160 | SE | | At 11 AM |
| 4 | 1 | | 160 | SE | | At 12 PM |
| 5 | 1 | | 160 | SE | | At 1 PM |
| 6 | 1 | | 160 | SE | | At 2 PM |
| 7 | 1 | | 160 | SE | | At 3 PM |
| 8 | 1 | | 160 | SE | | At 4 PM |
| 9 | 1 | | 160 | SE | | At 5 PM |
| 10 | 1 | | 160 | SE | | At 6 PM |
| 11 | 1 | | 160 | SE | | At 7 PM |
| 12 | 1 | | 160 | SE | | At 8 PM |
| 1 | 2 | | 160 | SE | | At 9 PM |
| 2 | 2 | | 160 | SE | | At 10 PM |
| 3 | 2 | | 160 | SE | | At 11 PM |
| 4 | 2 | | 160 | SE | | At 12 AM |
| 5 | 2 | | 160 | SE | | At 1 AM |
| 6 | 2 | | 160 | SE | | At 2 AM |
| 7 | 2 | | 160 | SE | | At 3 AM |
| 8 | 2 | | 160 | SE | | At 4 AM |
| 9 | 2 | | 160 | SE | | At 5 AM |
| 10 | 2 | | 160 | SE | | At 6 AM |
| 11 | 2 | | 160 | SE | | At 7 AM |
| 12 | 2 | | 160 | SE | | At 8 AM |
| Course. Dist. Diff. lat. Dep. Lat. by D. R. Lat. by Ob. Varia. Diff. Long. Long. in. Long. by Ob. | | | | | | |
| 160 12 1 1 11 11 11 11 11 11 | | | | | | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | |
|---------|----|-------|------------|--------|---------------|-----------------------|--------|-------------|-----------|-------------|
| 1 | | | 160 | | | Leaving port at 10 AM | | | | |
| 2 | 1 | | 160 | | | Running on course | | | | |
| 3 | 1 | | 160 | | | At 11 AM | | | | |
| 4 | 1 | | 160 | | | At 12 PM | | | | |
| 5 | 1 | | 160 | | | At 1 PM | | | | |
| 6 | 1 | | 160 | | | At 2 PM | | | | |
| 7 | 1 | | 160 | | | At 3 PM | | | | |
| 8 | 1 | | 160 | | | At 4 PM | | | | |
| 9 | 1 | | 160 | | | At 5 PM | | | | |
| 10 | 1 | | 160 | | | At 6 PM | | | | |
| 11 | 1 | | 160 | | | At 7 PM | | | | |
| 12 | 1 | | 160 | | | At 8 PM | | | | |
| 1 | 2 | | 160 | | | At 9 PM | | | | |
| 2 | 2 | | 160 | | | At 10 PM | | | | |
| 3 | 2 | | 160 | | | At 11 PM | | | | |
| 4 | 2 | | 160 | | | At 12 AM | | | | |
| 5 | 2 | | 160 | | | At 1 AM | | | | |
| 6 | 2 | | 160 | | | At 2 AM | | | | |
| 7 | 2 | | 160 | | | At 3 AM | | | | |
| 8 | 2 | | 160 | | | At 4 AM | | | | |
| 9 | 2 | | 160 | | | At 5 AM | | | | |
| 10 | 2 | | 160 | | | At 6 AM | | | | |
| 11 | 2 | | 160 | | | At 7 AM | | | | |
| 12 | 2 | | 160 | | | At 8 AM | | | | |
| <hr/> | | | | | | | | | | |
| Course. | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
| | | | | | | | | | | |

10° S from Chelone 10 from Enger

from

towards

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------------------------|
| 1 | 8 | | 116 | | | 1000 mts with fresh breeze |
| 2 | 8 | | 116 | | | and plus 1000 fathoms |
| 3 | 8 | | 116 | | | and plus 1000 fathoms |
| 4 | 8 | | 116 | | | and plus 1000 fathoms |
| 5 | 8 | | 116 | | | and plus 1000 fathoms |
| 6 | 8 | | 116 | | | and plus 1000 fathoms |
| 7 | 8 | | 116 | | | and plus 1000 fathoms |
| 8 | 8 | | 116 | | | and plus 1000 fathoms |
| 9 | 8 | | 116 | | | and plus 1000 fathoms |
| 10 | 8 | | 116 | | | and plus 1000 fathoms |
| 11 | 8 | | 116 | | | and plus 1000 fathoms |
| 12 | 8 | | 116 | | | and plus 1000 fathoms |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | 157 | | | 110.16 | |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------------------------|
| 1 | 5 | | 116 | | | 1000 mts with fresh breeze |
| 2 | 5 | | 116 | | | and plus 1000 fathoms |
| 3 | 5 | | 116 | | | and plus 1000 fathoms |
| 4 | 5 | | 116 | | | and plus 1000 fathoms |
| 5 | 5 | | 116 | | | and plus 1000 fathoms |
| 6 | 5 | | 116 | | | and plus 1000 fathoms |
| 7 | 5 | | 116 | | | and plus 1000 fathoms |
| 8 | 5 | | 116 | | | and plus 1000 fathoms |
| 9 | 5 | | 116 | | | and plus 1000 fathoms |
| 10 | 5 | | 116 | | | and plus 1000 fathoms |
| 11 | 5 | | 116 | | | and plus 1000 fathoms |
| 12 | 5 | | 116 | | | and plus 1000 fathoms |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

110 days 110

from *Port of ...* towards *...*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

112 Sycat

from

towards

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 3 | | SE | Log | | |
| 2 | 3 | | | | | |
| 3 | 3 | | | | | |
| 4 | 2 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | | | | |
| 7 | 2 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 2 | | | | | |
| 12 | 3 | | | | | |
| 1 | 3 | | | | | |
| 2 | 3 | | | | | |
| 3 | 3 | | | | | |
| 4 | 3 | | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | 12.16 | | | | 115 |

| H. | R. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 3 | | SE | | | |
| 2 | 3 | | | | | |
| 3 | 3 | | | | | |
| 4 | 3 | | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |
| 1 | 3 | | | | | |
| 2 | 3 | | | | | |
| 3 | 3 | | | | | |
| 4 | 3 | | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

111 111 111

Sept 15th 1849 from Salem towards Nantucket

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|-----------|--------|------|---------------------------|
| 1 | 4 | | by S by E | | | |
| 2 | 4 | | by S by E | | | |
| 3 | 4 | | by S by E | | | Commodore with light sail |
| 4 | 4 | | by S by E | | | that were clear of the |
| 5 | 4 | | by S by E | | | |
| 6 | 4 | | by S by E | | | |
| 7 | 4 | | by S by E | | | |
| 8 | 4 | | by S by E | | | |
| 9 | 4 | | by S by E | | | |
| 10 | 4 | | by S by E | | | |
| 11 | 4 | | by S by E | | | Went on latter the |
| 12 | 4 | | by S by E | | | same as before |
| 1 | 3 | | by S by E | | | |
| 2 | 3 | | by S by E | | | |
| 3 | 3 | | by S by E | | | |
| 4 | 3 | | by S by E | | | |
| 5 | 3 | | by S by E | | | |
| 6 | 3 | | by S by E | | | End Calm the same |
| 7 | 3 | | by S by E | | | |
| 8 | 3 | | by S by E | | | |
| 9 | 2 | | by S by E | | | |
| 10 | 2 | | by S by E | | | |
| 11 | 4 | | by S by E | | | |
| 12 | 4 | | by S by E | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | 15. 1 | | | | 111. 45 |

Sept 17th 1849

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|-----------|--------|------|----------|
| 1 | 5 | | by S by E | | | |
| 2 | 5 | | by S by E | | | |
| 3 | 5 | | by S by E | | | |
| 4 | 5 | | by S by E | | | |
| 5 | 5 | | by S by E | | | |
| 6 | 5 | | by S by E | | | |
| 7 | 5 | | by S by E | | | |
| 8 | 5 | | by S by E | | | |
| 9 | 5 | | by S by E | | | |
| 10 | 5 | | by S by E | | | |
| 11 | 5 | | by S by E | | | |
| 12 | 5 | | by S by E | | | |
| 1 | 6 | | by S by E | | | |
| 2 | 6 | | by S by E | | | |
| 3 | 6 | | by S by E | | | |
| 4 | 6 | | by S by E | | | |
| 5 | 6 | | by S by E | | | |
| 6 | 6 | | by S by E | | | |
| 7 | 6 | | by S by E | | | |
| 8 | 6 | | by S by E | | | |
| 9 | 6 | | by S by E | | | |
| 10 | 6 | | by S by E | | | |
| 11 | 6 | | by S by E | | | |
| 12 | 6 | | by S by E | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

11th Sept 1849

15 days out

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------------------------|
| 1 | | | | | | On 10 days 1820 |
| 2 | | | | | | Commenced light rain & |
| 3 | | | | | | clear weather till 10 |
| 4 | | | | | | at night when it commenced |
| 5 | | | | | | to rain till 11 |
| 6 | | | | | | at night when it commenced |
| 7 | | | | | | to rain till 11 |
| 8 | | | | | | at night when it commenced |
| 9 | | | | | | to rain till 11 |
| 10 | | | | | | at night when it commenced |
| 11 | | | | | | to rain till 11 |
| 12 | | | | | | at night when it commenced |
| 1 | | | | | | to rain till 11 |
| 2 | | | | | | at night when it commenced |
| 3 | | | | | | to rain till 11 |
| 4 | | | | | | at night when it commenced |
| 5 | | | | | | to rain till 11 |
| 6 | | | | | | at night when it commenced |
| 7 | | | | | | to rain till 11 |
| 8 | | | | | | at night when it commenced |
| 9 | | | | | | to rain till 11 |
| 10 | | | | | | at night when it commenced |
| 11 | | | | | | to rain till 11 |
| 12 | | | | | | at night when it commenced |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------------------------------------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 2d Course. This the base of 110 days. | | | | | | | | | |

1 you please give 13 for the church -
 2 at Saturday New year with school
 3 working to show off our business
 4 business, help me a few I don't know
 5 often his lack will give to fighting boys
 6 when then up to us. I don't like to see
 7 any way with me and I want to be
 8 my. I am sure I am not a
 9 you are off to see I have much to say
 10
 11
 12

[illegible]

Ship from Manila towards Saline

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|--------------------------------|
| 1 | | | | | | |
| 2 | | | | | | Commenced with fine breeze |
| 3 | | | | | | pleasant weather |
| 4 | | | | | | at 4.30 we were in bay |
| 5 | | | | | | At 5.00 commenced repairing |
| 6 | | | | | | the rigging. At 6.00 finished |
| 7 | | | | | | the repairs and sent the main |
| 8 | | | | | | mast to be shot. |
| 9 | | | | | | At 12.00 we went to bed up and |
| 10 | | | | | | down in the bay |
| 11 | | | | | | At 1.00 commenced the repairs |
| 12 | | | | | | the rigging. At 2.00 finished |
| 1 | | | | | | the repairs and sent the main |
| 2 | | | | | | mast to be shot. |
| 3 | | | | | | At 12.00 we went to bed up and |
| 4 | | | | | | down in the bay |
| 5 | | | | | | At 1.00 commenced the repairs |
| 6 | | | | | | the rigging. At 2.00 finished |
| 7 | | | | | | the repairs and sent the main |
| 8 | | | | | | mast to be shot. |
| 9 | | | | | | At 12.00 we went to bed up and |
| 10 | | | | | | down in the bay |
| 11 | | | | | | At 1.00 commenced the repairs |
| 12 | | | | | | the rigging. At 2.00 finished |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|--------------------------------|
| 1 | | | | | | Commenced with fine breeze |
| 2 | | | | | | pleasant weather |
| 3 | | | | | | at 4.30 we were in bay |
| 4 | | | | | | At 5.00 commenced repairing |
| 5 | | | | | | the rigging. At 6.00 finished |
| 6 | | | | | | the repairs and sent the main |
| 7 | | | | | | mast to be shot. |
| 8 | | | | | | At 12.00 we went to bed up and |
| 9 | | | | | | down in the bay |
| 10 | | | | | | At 1.00 commenced the repairs |
| 11 | | | | | | the rigging. At 2.00 finished |
| 12 | | | | | | the repairs and sent the main |
| 1 | | | | | | mast to be shot. |
| 2 | | | | | | At 12.00 we went to bed up and |
| 3 | | | | | | down in the bay |
| 4 | | | | | | At 1.00 commenced the repairs |
| 5 | | | | | | the rigging. At 2.00 finished |
| 6 | | | | | | the repairs and sent the main |
| 7 | | | | | | mast to be shot. |
| 8 | | | | | | At 12.00 we went to bed up and |
| 9 | | | | | | down in the bay |
| 10 | | | | | | At 1.00 commenced the repairs |
| 11 | | | | | | the rigging. At 2.00 finished |
| 12 | | | | | | the repairs and sent the main |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S 78 E | 98 | 21 | 46 | 15.58 | 15.58 | True | 1.33 | 115.48 | 115.48 |

Dist. in air 98 miles

Ship *Titmouse* from *Manila* towards *Silene*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | / | | | | | |
| 2 | / | / | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | / | | | | |
| 7 | / | | | | | |
| 8 | / | / | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | / | | | | |
| 8 | / | / | | | | |
| 9 | / | / | | | | |
| 10 | / | / | | | | |
| 11 | / | / | | | | |
| 12 | / | / | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 114 | 1.5 | 29 | 111 | 13 29 | 13.11 | 1000 | 1.44 | 116.58 | 116.25 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
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| 7 | / | / | | | | |
| 8 | / | / | | | | |
| 9 | / | / | | | | |
| 10 | / | / | | | | |
| 11 | / | / | | | | |
| 12 | / | / | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 114 | 89 | 28 | 84 | 12.47 | 12.42 | 1000 | 1.37 | 115.22 | 115.18 |

102 miles from

2 days

Ship St Paul from Manila towards Salern

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------------------------------|
| 1 | 4 | | | | | Yemeners fight (sail) and (sail) |
| 2 | 4 | | | | | sent (sail) (sail) (sail) |
| 3 | 4 | | | | | set to the best advantage |
| 4 | 4 | | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | |
| 8 | 4 | | | | | much to fear it same as above |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |
| 1 | 4 | | | | | Yemeners fight (sail) and (sail) |
| 2 | 4 | | | | | sent (sail) (sail) (sail) |
| 3 | 4 | | | | | set to the best advantage |
| 4 | 4 | | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | |
| 8 | 4 | | | | | much to fear it same as above |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 172 | 114 | 35 | 107 | 12 14 | 12 17 | 107 | 1 52 | 113 22 | 113 22 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
|----|----|-------|----------|--------|------|----------|

| | | | | | | |
|----|---|--|--|--|--|----------------------------------|
| 1 | 4 | | | | | Yemeners fight (sail) and (sail) |
| 2 | 4 | | | | | sent (sail) (sail) (sail) |
| 3 | 4 | | | | | set to the best advantage |
| 4 | 4 | | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | |
| 8 | 4 | | | | | |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |
| 1 | 4 | | | | | Yemeners fight (sail) and (sail) |
| 2 | 4 | | | | | sent (sail) (sail) (sail) |
| 3 | 4 | | | | | set to the best advantage |
| 4 | 4 | | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | |
| 8 | 4 | | | | | |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 155 | 133 | 96 | 108 | 10 51 | 10 35 | 108 | 1 51 | 113 9 | 111 39 |

548500

4 days out

Ship *St. Paul* from *Salem* towards *Havila*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 5 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 145 | 114 | 121 | 54 | 8.31 | 8.07 | | 127 | No. 12 | 11.12 |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 5 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | | | | | |
| 2 | 6 | | | | | |
| 3 | 6 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 135 | 126 | 143 | 92 | 7.24 | 7.15 | | 1.13 | 10.55 | 10.42 |

Dist 1468

6 days out

Ship H. K. from Manila towards Salem

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | on September 29 1838 | | | | |
|---------|-------|------------|--------|---------------|-------------|----------------------|-------------|-----------|--------------|---|
| 1 | ✓ | | | | | | | | | |
| 2 | ✓ | | | | | | | | | |
| 3 | ✓ | | | | | | | | | |
| 4 | ✓ | | | | | | | | | |
| 5 | ✓ | | | | | | | | | |
| 6 | ✓ | | | | | | | | | |
| 7 | ✓ | | | | | | | | | |
| 8 | ✓ | | | | | | | | | |
| 9 | ✓ | | | | | | | | | |
| 10 | ✓ | | | | | | | | | |
| 11 | ✓ | | | | | | | | | |
| 12 | ✓ | | | | | | | | | |
| 1 | ✓ | | | | | | | | | |
| 2 | ✓ | | | | | | | | | |
| 3 | ✓ | | | | | | | | | |
| 4 | ✓ | | | | | | | | | |
| 5 | ✓ | | | | | | | | | |
| 6 | ✓ | | | | | | | | | |
| 7 | ✓ | | | | | | | | | |
| 8 | ✓ | | | | | | | | | |
| 9 | ✓ | | | | | | | | | |
| 10 | ✓ | | | | | | | | | |
| 11 | ✓ | | | | | | | | | |
| 12 | ✓ | | | | | | | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Lat. 10° 11' N
Long. 105° 01' E

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | on September 30 1838 | | | | |
|---------|-------|------------|--------|---------------|-------------|----------------------|-------------|-----------|--------------|---|
| 1 | ✓ | | | | | | | | | |
| 2 | ✓ | | | | | | | | | |
| 3 | ✓ | | | | | | | | | |
| 4 | ✓ | | | | | | | | | |
| 5 | ✓ | | | | | | | | | |
| 6 | ✓ | | | | | | | | | |
| 7 | ✓ | | | | | | | | | |
| 8 | ✓ | | | | | | | | | |
| 9 | ✓ | | | | | | | | | |
| 10 | ✓ | | | | | | | | | |
| 11 | ✓ | | | | | | | | | |
| 12 | ✓ | | | | | | | | | |
| 1 | ✓ | | | | | | | | | |
| 2 | ✓ | | | | | | | | | |
| 3 | ✓ | | | | | | | | | |
| 4 | ✓ | | | | | | | | | |
| 5 | ✓ | | | | | | | | | |
| 6 | ✓ | | | | | | | | | |
| 7 | ✓ | | | | | | | | | |
| 8 | ✓ | | | | | | | | | |
| 9 | ✓ | | | | | | | | | |
| 10 | ✓ | | | | | | | | | |
| 11 | ✓ | | | | | | | | | |
| 12 | ✓ | | | | | | | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Lat. 10° 11' N

8 days out

Ship *St. Paul* from *Manila* towards *Sulu*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|-----------|-------------|------|--|
| 1 | 3 | | <i>SE</i> | <i>fair</i> | | <i>Commenced rain with</i> |
| 2 | 2 | | | | | <i>light S. by E. wind</i> |
| 3 | 2 | | | | | |
| 4 | 2 | | | | | |
| 5 | 2 | | | | | <i>the S. wind & the rain the</i> |
| 6 | 2 | | | | | <i>same as above</i> |
| 7 | 2 | | | | | |
| 8 | 2 | | | | | |
| 9 | 2 | | | | | |
| 10 | 2 | | | | | <i>At 3 P.M. a violent sea was felt</i> |
| 11 | 2 | | | | | <i>and a heavy rain fell at 4 P.M.</i> |
| 12 | 2 | | | | | <i>the ship leaving a large and</i> |
| 1 | 2 | | | | | <i>large narrow trail which remained</i> |
| 2 | 3 | | | | | <i>until about 1 P.M. when it</i> |
| 3 | 4 | | | | | <i>gradually faded away. The</i> |
| 4 | 3 | | | | | <i>sea appeared like Sulu but was</i> |
| 5 | 2 | | | | | <i>very different. The trail was</i> |
| 6 | 2 | | | | | <i>of a regular wave form and</i> |
| 7 | 2 | | | | | <i>the sea was not high. The night</i> |
| 8 | 2 | | | | | <i>has been quiet but at that time</i> |
| 9 | 2 | | | | | <i>the sea was not high. The night</i> |
| 10 | 2 | | | | | <i>the sea was not high. The night</i> |
| 11 | 2 | | | | | <i>the sea was not high. The night</i> |
| 12 | 2 | | | | | <i>the sea was not high. The night</i> |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|-----------|-----------|------------|-----------|---------------|-------------|-------------|-------------|--------------|--------------|
| <i>SE</i> | <i>65</i> | <i>10</i> | <i>24</i> | <i>3.58</i> | <i>3.58</i> | <i>same</i> | <i>24</i> | <i>107.5</i> | <i>107.5</i> |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|-----------|-------------|------|--|
| 1 | 1 | | <i>SE</i> | <i>fair</i> | | <i>Commenced rain with</i> |
| 2 | 1 | | | | | <i>light S. by E. wind</i> |
| 3 | 2 | | | | | |
| 4 | 3 | | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | <i>the same as above</i> |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | | | | |
| 10 | 2 | | | | | |
| 11 | 2 | | | | | <i>At 3 P.M. a violent sea was felt</i> |
| 12 | 2 | | | | | <i>and a heavy rain fell at 4 P.M.</i> |
| 1 | 2 | | | | | <i>the ship leaving a large and</i> |
| 2 | 2 | | | | | <i>large narrow trail which remained</i> |
| 3 | 2 | | | | | <i>until about 1 P.M. when it</i> |
| 4 | 2 | | | | | <i>gradually faded away. The</i> |
| 5 | 2 | | | | | <i>sea appeared like Sulu but was</i> |
| 6 | 2 | | | | | <i>very different. The trail was</i> |
| 7 | 2 | | | | | <i>of a regular wave form and</i> |
| 8 | 2 | | | | | <i>the sea was not high. The night</i> |
| 9 | 2 | | | | | <i>has been quiet but at that time</i> |
| 10 | 2 | | | | | <i>the sea was not high. The night</i> |
| 11 | 2 | | | | | <i>the sea was not high. The night</i> |
| 12 | 2 | | | | | <i>the sea was not high. The night</i> |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|-----------|-----------|-------------|-----------|---------------|-------------|-------------|-------------|--------------|--------------|
| <i>SE</i> | <i>64</i> | <i>1.02</i> | <i>13</i> | <i>2.57</i> | | <i>same</i> | <i>13</i> | <i>107.6</i> | <i>107.6</i> |

Des. for 1037

10 Jan. 1854

Ship *St Paul* from *Manila* towards *Salome*

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | 2 | 1 | 11 E | 11 E | | |
| 2 | 3 | | | | | |
| 3 | 4 | | | | | |
| 4 | 5 | | | | | |
| 5 | 6 | | | | | |
| 6 | 7 | | | | | |
| 7 | 8 | | | | | |
| 8 | 9 | | | | | |
| 9 | 10 | | | | | |
| 10 | 11 | | | | | |
| 11 | 12 | | | | | |
| 1 | 3 | | | | | |
| 2 | 4 | | | | | |
| 3 | 5 | | | | | |
| 4 | 6 | | | | | |
| 5 | 7 | | | | | |
| 6 | 8 | | | | | |
| 7 | 9 | | | | | |
| 8 | 10 | | | | | |
| 9 | 11 | | | | | |
| 10 | 12 | | | | | |
| 1 | 3 | | | | | |
| 2 | 4 | | | | | |
| 3 | 5 | | | | | |
| 4 | 6 | | | | | |
| 5 | 7 | | | | | |
| 6 | 8 | | | | | |
| 7 | 9 | | | | | |
| 8 | 10 | | | | | |
| 9 | 11 | | | | | |
| 10 | 12 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 11 E | 53 | 58 | 1 | 158 | 218 | | 01 | 166 | 107.25 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | 2 | | 11 E | 11 E | | |
| 2 | 3 | | | | | |
| 3 | 4 | | | | | |
| 4 | 5 | | | | | |
| 5 | 6 | | | | | |
| 6 | 7 | | | | | |
| 7 | 8 | | | | | |
| 8 | 9 | | | | | |
| 9 | 10 | | | | | |
| 10 | 11 | | | | | |
| 11 | 12 | | | | | |
| 1 | 2 | | | | | |
| 2 | 3 | | | | | |
| 3 | 4 | | | | | |
| 4 | 5 | | | | | |
| 5 | 6 | | | | | |
| 6 | 7 | | | | | |
| 7 | 8 | | | | | |
| 8 | 9 | | | | | |
| 9 | 10 | | | | | |
| 10 | 11 | | | | | |
| 11 | 12 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 11 E | 38 | 28 | 3 | 1.44 | 1.48 | None | 3 | 166 | 107.27.45 |

12 Days out

Ship *Star* from *Marblehead* towards *London*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. | | | | |
|---------|----|-------|------------|--------|---------------|---------------------|--------|-------------|-----------|--------------|
| 1 | 1 | | N 51 W | W | | Commence Light wind | | | | |
| 2 | 2 | | N 46 W | W | | Clear Sky | | | | |
| 3 | 2 | | N 51 W | W | | Clear Sky | | | | |
| 4 | 2 | | N 51 W | W | | Clear Sky | | | | |
| 5 | 1 | | | | | Clear Sky | | | | |
| 6 | 1 | | | | | Clear Sky | | | | |
| 7 | 1 | | | | | Clear Sky | | | | |
| 8 | 1 | | | | | Clear Sky | | | | |
| 9 | 1 | | | | | Clear Sky | | | | |
| 10 | 1 | | | | | Clear Sky | | | | |
| 11 | 1 | | | | | Clear Sky | | | | |
| 12 | 1 | | | | | Clear Sky | | | | |
| 1 | 2 | | | | | Clear Sky | | | | |
| 2 | 2 | | | | | Clear Sky | | | | |
| 3 | 2 | | | | | Clear Sky | | | | |
| 4 | 2 | | | | | Clear Sky | | | | |
| 5 | 1 | | | | | Clear Sky | | | | |
| 6 | 2 | | | | | Clear Sky | | | | |
| 7 | 1 | | | | | Clear Sky | | | | |
| 8 | 2 | | | | | Clear Sky | | | | |
| 9 | 2 | | | | | Clear Sky | | | | |
| 10 | 2 | | | | | Clear Sky | | | | |
| 11 | 2 | | | | | Clear Sky | | | | |
| 12 | 2 | | | | | Clear Sky | | | | |
| <hr/> | | | | | | | | | | |
| Course. | | Dist. | Diff. Lat. | Long. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| N 51 W | | 31 | 22 | 16 | 1.27 | 1.25 | True | 76 | 106.4 | 7.14 |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. | On Friday Dec 6 1838 | | |
|---------|-------|------------|----------|---------------|-------------|---------------------|----------------------|-----------|--------------|
| 1 | 2 | | N 51 W | W | | Commence Light wind | | | |
| 2 | 2 | | | | | Clear Sky | | | |
| 3 | 3 | | | | | Clear Sky | | | |
| 4 | 3 | | | | | Clear Sky | | | |
| 5 | 1 | | | | | Clear Sky | | | |
| 6 | 1 | | | | | Clear Sky | | | |
| 7 | 1 | | | | | Clear Sky | | | |
| 8 | 2 | | | | | Clear Sky | | | |
| 9 | 1 | | | | | Clear Sky | | | |
| 10 | 1 | | | | | Clear Sky | | | |
| 11 | 1 | | | | | Clear Sky | | | |
| 12 | 1 | | | | | Clear Sky | | | |
| 1 | 1 | | | | | Clear Sky | | | |
| 2 | 1 | | | | | Clear Sky | | | |
| 3 | 1 | | | | | Clear Sky | | | |
| 4 | 1 | | | | | Clear Sky | | | |
| 5 | 1 | | | | | Clear Sky | | | |
| 6 | 2 | | | | | Clear Sky | | | |
| 7 | 2 | | | | | Clear Sky | | | |
| 8 | 1 | | | | | Clear Sky | | | |
| 9 | 1 | | | | | Clear Sky | | | |
| 10 | 1 | | | | | Clear Sky | | | |
| 11 | 1 | | | | | Clear Sky | | | |
| 12 | 1 | | | | | Clear Sky | | | |
| Course. | Dist. | Diff. Lat. | Long. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| N 51 W | 22 | 18 | 11 | 1.07 | 1.18 | True | 11 | 106.2 | |

1203 miles

Shipping

Ship *H. Dul* from *Manila* towards *Salome*

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | 2 | 1 | 178 | 178 | | |
| 2 | 3 | | | | | |
| 3 | 3 | | | | | |
| 4 | 3 | | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 2 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 2 | | | | | |
| 1 | 3 | | | | | |
| 2 | 3 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 2 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-------|
| 158 | 53 | 58 | 1 | 158 | 216 | | 01 | 16 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | 2 | | 158 | | | |
| 2 | 2 | | | | | |
| 3 | 1 | | 114 | | | |
| 4 | 1 | | | | | |
| 5 | 2 | | | | | |
| 6 | 3 | | | | | |
| 7 | 2 | | | | | |
| 8 | 2 | | | | | |
| 9 | 1 | | | | | |
| 10 | 2 | | | | | |
| 11 | 3 | | | | | |
| 12 | 2 | | | | | |
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 2 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|-------------|
| 158 | 57 | 26 | 3 | 1.44 | 1.49 | None | 3 | 106.54 | 107.27 |

12 Days out

Ship *St. Paul* from *Sal. m.* towards *Manila*
On Saturday Dec 1 1839

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 2 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |
| 1 | 2 | | | | | |
| 2 | 2 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 16 | 15 | 18 | 2 | 10.544056 | 10.54 | 2 | 10.62 | 10.62 | 10.62 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 2 | | | | | |
| 4 | 2 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 2 | | | | | |
| 8 | 2 | | | | | |
| 9 | 3 | | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 11 | 44 | 43 | 15 | 10.30 | 10.35 | 15 | 10.15 | 10.15 | 10.15 |

1514 miles

16 Dec at

Ship *St. Paul* from *Manila* towards *Sulu*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|--|
| 1 | 5 | | SE | SE | | On Monday Dec 9 th 88 |
| 2 | 4 | | | SE | | beginning fresh breeze from S |
| 3 | 2 | | | SE | | at 4 of morning at 10 ³⁰ AM |
| 4 | 2 | | | SE | | more favorable at 12 ³⁰ AM |
| 5 | 1 | | | SE | | and light sail and course same |
| 6 | 1 | | | SE | | At 1 ³⁰ AM changed the sail |
| 7 | 1 | | | SE | | sent it off and set the sail |
| 8 | 1 | | | SE | | |
| 9 | 1 | | | SE | | |
| 10 | 1 | | | SE | | |
| 11 | 1 | | | SE | | |
| 12 | 1 | | | SE | | |
| 1 | 2 | | | SE | | |
| 2 | 2 | | | SE | | |
| 3 | 2 | | | SE | | |
| 4 | 2 | | | SE | | |
| 5 | 2 | | | SE | | |
| 6 | 2 | | | SE | | |
| 7 | 2 | | | SE | | |
| 8 | 2 | | | SE | | |
| 9 | 2 | | | SE | | |
| 10 | 2 | | | SE | | |
| 11 | 2 | | | SE | | |
| 12 | 2 | | | SE | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| SE | 22 | 22 | 4 | 1. 11 | 1. 13 | 1 m 4 | 17. 06 | 17. 10 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|--|
| 1 | 1 | | SE | SE | | On Sunday Dec 10 th 88 |
| 2 | 1 | | SE | SE | | beginning fresh breeze from S |
| 3 | 1 | | SE | SE | | at 4 of morning at 10 ³⁰ AM |
| 4 | 1 | | SE | SE | | more favorable at 12 ³⁰ AM |
| 5 | 2 | | SE | SE | | and light sail and course same |
| 6 | 2 | | SE | SE | | At 1 ³⁰ AM changed the sail |
| 7 | 2 | | SE | SE | | sent it off and set the sail |
| 8 | 2 | | SE | SE | | |
| 9 | 5 | | SE | SE | | |
| 10 | 2 | | SE | SE | | |
| 11 | 1 | | SE | SE | | |
| 12 | 2 | | SE | SE | | |
| 1 | 2 | | SE | SE | | |
| 2 | 2 | | SE | SE | | |
| 3 | 2 | | SE | SE | | |
| 4 | 2 | | SE | SE | | |
| 5 | 2 | | SE | SE | | |
| 6 | 2 | | SE | SE | | |
| 7 | 1 | | SE | SE | | |
| 8 | 1 | | SE | SE | | |
| 9 | 1 | | SE | SE | | |
| 10 | 1 | | SE | SE | | |
| 11 | 1 | | SE | SE | | |
| 12 | 1 | | SE | SE | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| SE | 15 | 50 | 15 | 1. 53 | 1. 55 | 1/4 | 15 | 16. 51 | 16. 52 |

357 miles

18 days out

Ship St. Paul from Manila towards Surin

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------------------------|
| 1 | | | | | | Commenced with calm but |
| 2 | | | | | | passed with a strong South |
| 3 | | | | | | west. I Barque and a small |
| 4 | | | | | | boat all the latter Gaspar |
| 5 | | | | | | in bearing 14 1/2 |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | At 5 AM all three Vails |
| 11 | | | | | | in air ship of |
| 12 | | | | | | |
| 1 | | | | | | At 12 AM all three Vails |
| 2 | | | | | | in air ship of |
| 3 | | | | | | |
| 4 | | | | | | At 17 AM all three Vails |
| 5 | | | | | | in air ship of |
| 6 | | | | | | |
| 7 | | | | | | At 8 AM all three Vails |
| 8 | | | | | | in air ship of |
| 9 | | | | | | |
| 10 | | | | | | At 10 AM all three Vails |
| 11 | | | | | | in air ship of |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------------------------|
| 1 | | | | | | Commenced with calm but |
| 2 | | | | | | passed with a strong South |
| 3 | | | | | | west. I Barque and a small |
| 4 | | | | | | boat all the latter Gaspar |
| 5 | | | | | | in bearing 14 1/2 |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | At 5 AM all three Vails |
| 11 | | | | | | in air ship of |
| 12 | | | | | | |
| 1 | | | | | | At 12 AM all three Vails |
| 2 | | | | | | in air ship of |
| 3 | | | | | | |
| 4 | | | | | | At 17 AM all three Vails |
| 5 | | | | | | in air ship of |
| 6 | | | | | | |
| 7 | | | | | | At 8 AM all three Vails |
| 8 | | | | | | in air ship of |
| 9 | | | | | | |
| 10 | | | | | | At 10 AM all three Vails |
| 11 | | | | | | in air ship of |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

20 Days out

Ship *St Paul* from *Manila* towards *Solon*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|-------------------------------------|
| 1 | | | | | | On Friday Dec 15 th 1852 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|---------------------------------------|
| 1 | | | | | | On Saturday Dec 14 th 1852 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| | | | | | | | | | |

Ship *St. Rie* from *Manila* towards *Salem*
 On Sunday Dec 15th 1838

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | On Sunday Dec 15 th 1859 | | | | | | | | |
|---------|----|-------|----------|--------|------|---|-------------------------------------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | | | | | | Commenced fresh breeze and | | | | | | | | | |
| 2 | | | | | | Squally weather | | | | | | | | | |
| 3 | | | | | | At 2 ³⁰ M. Commenced 2 nd force | | | | | | | | | |
| 4 | | | | | | At 4 ³⁰ M. Commenced 3 rd force | | | | | | | | | |
| 5 | | | | | | At 6 ³⁰ M. Commenced 4 th force | | | | | | | | | |
| 6 | | | | | | At 8 ³⁰ M. Commenced 5 th force | | | | | | | | | |
| 7 | | | | | | At 10 ³⁰ M. Commenced 6 th force | | | | | | | | | |
| 8 | | | | | | At 12 ³⁰ M. Commenced 7 th force | | | | | | | | | |
| 9 | | | | | | At 2 ³⁰ P. Commenced 8 th force | | | | | | | | | |
| 10 | | | | | | At 4 ³⁰ P. Commenced 9 th force | | | | | | | | | |
| 11 | | | | | | At 6 ³⁰ P. Commenced 10 th force | | | | | | | | | |
| 12 | | | | | | At 8 ³⁰ P. Commenced 11 th force | | | | | | | | | |
| 1 | | | | | | At 10 ³⁰ P. Commenced 12 th force | | | | | | | | | |
| 2 | | | | | | At 1 ³⁰ A. Commenced 1 st force | | | | | | | | | |
| 3 | | | | | | At 3 ³⁰ A. Commenced 2 nd force | | | | | | | | | |
| 4 | | | | | | At 5 ³⁰ A. Commenced 3 rd force | | | | | | | | | |
| 5 | | | | | | At 7 ³⁰ A. Commenced 4 th force | | | | | | | | | |
| 6 | | | | | | At 9 ³⁰ A. Commenced 5 th force | | | | | | | | | |
| 7 | | | | | | At 11 ³⁰ A. Commenced 6 th force | | | | | | | | | |
| 8 | | | | | | At 1 ³⁰ P. Commenced 7 th force | | | | | | | | | |
| 9 | | | | | | At 3 ³⁰ P. Commenced 8 th force | | | | | | | | | |
| 10 | | | | | | At 5 ³⁰ P. Commenced 9 th force | | | | | | | | | |
| 11 | | | | | | At 7 ³⁰ P. Commenced 10 th force | | | | | | | | | |
| 12 | | | | | | At 9 ³⁰ P. Commenced 11 th force | | | | | | | | | |
| Course. | | | | | | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| | | | | | | | | | | | 425 | | | | 10634 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | | | |
|---------|----|-------|----------|--------|------|---|---------------|-------------|--------|---------------|-------------|--------------|-------------|-----------|--------------|
| 1 | 2 | | | | | At 1 ³⁰ A. Commenced 1 st force | | | | | | | | | |
| 2 | 2 | | | | | At 3 ³⁰ A. Commenced 2 nd force | | | | | | | | | |
| 3 | 1 | | | | | At 5 ³⁰ A. Commenced 3 rd force | | | | | | | | | |
| 4 | 1 | | | | | At 7 ³⁰ A. Commenced 4 th force | | | | | | | | | |
| 5 | 1 | | | | | At 9 ³⁰ A. Commenced 5 th force | | | | | | | | | |
| 6 | 1 | | | | | At 11 ³⁰ A. Commenced 6 th force | | | | | | | | | |
| 7 | 1 | | | | | At 1 ³⁰ P. Commenced 7 th force | | | | | | | | | |
| 8 | 1 | | | | | At 3 ³⁰ P. Commenced 8 th force | | | | | | | | | |
| 9 | 1 | | | | | At 5 ³⁰ P. Commenced 9 th force | | | | | | | | | |
| 10 | 1 | | | | | At 7 ³⁰ P. Commenced 10 th force | | | | | | | | | |
| 11 | 1 | | | | | At 9 ³⁰ P. Commenced 11 th force | | | | | | | | | |
| 12 | 1 | | | | | At 11 ³⁰ P. Commenced 12 th force | | | | | | | | | |
| 1 | 1 | | | | | At 1 ³⁰ A. Commenced 1 st force | | | | | | | | | |
| 2 | 1 | | | | | At 3 ³⁰ A. Commenced 2 nd force | | | | | | | | | |
| 3 | 1 | | | | | At 5 ³⁰ A. Commenced 3 rd force | | | | | | | | | |
| 4 | 1 | | | | | At 7 ³⁰ A. Commenced 4 th force | | | | | | | | | |
| 5 | 1 | | | | | At 9 ³⁰ A. Commenced 5 th force | | | | | | | | | |
| 6 | 1 | | | | | At 11 ³⁰ A. Commenced 6 th force | | | | | | | | | |
| 7 | 1 | | | | | At 1 ³⁰ P. Commenced 7 th force | | | | | | | | | |
| 8 | 1 | | | | | At 3 ³⁰ P. Commenced 8 th force | | | | | | | | | |
| 9 | 1 | | | | | At 5 ³⁰ P. Commenced 9 th force | | | | | | | | | |
| 10 | 1 | | | | | At 7 ³⁰ P. Commenced 10 th force | | | | | | | | | |
| 11 | 1 | | | | | At 9 ³⁰ P. Commenced 11 th force | | | | | | | | | |
| 12 | 1 | | | | | At 11 ³⁰ P. Commenced 12 th force | | | | | | | | | |
| Course. | | | | | | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| | | | | | | | | | | | | | | | |

2
3
4
5
6
7
8
9
10
11
12

124 Day out

Ship *St Anne* from *Winnipeg* towards *London*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|---|----|------|----------|--------|------|--|
| 1 | | | | | | Commenced sailing on 1st June current with |
| 2 | | | | | | myself & all the crew on board the ship |
| 3 | | | | | | on board the ship on board the ship |
| 4 | | | | | | on board the ship on board the ship |
| 5 | | | | | | on board the ship on board the ship |
| 6 | | | | | | on board the ship on board the ship |
| 7 | | | | | | on board the ship on board the ship |
| 8 | | | | | | on board the ship on board the ship |
| 9 | | | | | | on board the ship on board the ship |
| 10 | | | | | | on board the ship on board the ship |
| 11 | | | | | | on board the ship on board the ship |
| 12 | | | | | | on board the ship on board the ship |
| 1 | | | | | | on board the ship on board the ship |
| 2 | | | | | | on board the ship on board the ship |
| 3 | | | | | | on board the ship on board the ship |
| 4 | | | | | | on board the ship on board the ship |
| 5 | | | | | | on board the ship on board the ship |
| 6 | | | | | | on board the ship on board the ship |
| 7 | | | | | | on board the ship on board the ship |
| 8 | | | | | | on board the ship on board the ship |
| 9 | | | | | | on board the ship on board the ship |
| 10 | | | | | | on board the ship on board the ship |
| 11 | | | | | | on board the ship on board the ship |
| 12 | | | | | | on board the ship on board the ship |
| <div> <div>Course</div> <div>Dist.</div> <div>Diff. lat.</div> <div>Dep.</div> <div>Lat. by D. R.</div> <div>Lat. by Ob.</div> <div>Varia.</div> <div>Diff. Long.</div> <div>Long. in.</div> <div>Long. by Ob.</div> </div> | | | | | | |

Ship *St Anne* from *Winnipeg* towards *London*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|---|----|------|----------|--------|------|--|
| 1 | | | | | | Commenced sailing on 1st June current with |
| 2 | | | | | | myself & all the crew on board the ship |
| 3 | | | | | | on board the ship on board the ship |
| 4 | | | | | | on board the ship on board the ship |
| 5 | | | | | | on board the ship on board the ship |
| 6 | | | | | | on board the ship on board the ship |
| 7 | | | | | | on board the ship on board the ship |
| 8 | | | | | | on board the ship on board the ship |
| 9 | | | | | | on board the ship on board the ship |
| 10 | | | | | | on board the ship on board the ship |
| 11 | | | | | | on board the ship on board the ship |
| 12 | | | | | | on board the ship on board the ship |
| 1 | | | | | | on board the ship on board the ship |
| 2 | | | | | | on board the ship on board the ship |
| 3 | | | | | | on board the ship on board the ship |
| 4 | | | | | | on board the ship on board the ship |
| 5 | | | | | | on board the ship on board the ship |
| 6 | | | | | | on board the ship on board the ship |
| 7 | | | | | | on board the ship on board the ship |
| 8 | | | | | | on board the ship on board the ship |
| 9 | | | | | | on board the ship on board the ship |
| 10 | | | | | | on board the ship on board the ship |
| 11 | | | | | | on board the ship on board the ship |
| 12 | | | | | | on board the ship on board the ship |
| <div> <div>Course</div> <div>Dist.</div> <div>Diff. lat.</div> <div>Dep.</div> <div>Lat. by D. R.</div> <div>Lat. by Ob.</div> <div>Varia.</div> <div>Diff. Long.</div> <div>Long. in.</div> <div>Long. by Ob.</div> </div> | | | | | | |

Ship *St Paul* from *Manila* towards *Salem*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | | | | | | | | | | | | |
|--|-------|------------|----------|--------------|-------------|--|---------|-------|------------|------|--------------|-------------|--------|--|--|--|--|--|--|--|
| 1 | | | | | | On Thursday Dec 19 th | | | | | | | | | | | | | | |
| 2 | | | | | | Commenced fresh breeze and pleasant weather | | | | | | | | | | | | | | |
| 3 | | | | | | all sail set to the wind, a working out of the Great | | | | | | | | | | | | | | |
| 4 | | | | | | Baggage etc. American Ship in company | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | Course of Run, North by East, 10 miles | | | | | | | | | | | | | | |
| 8 | | | | | | Point of Land S by E & 4 1/2 miles | | | | | | | | | | | | | | |
| 9 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 10 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 11 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 12 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 1 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 2 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 3 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 4 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 5 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 6 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 7 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 8 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 9 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 10 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 11 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 12 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| <table border="1"> <tr> <th>Course.</th><th>Dist.</th><th>Diff. lat.</th><th>Dep.</th><th>Lat. by D.R.</th><th>Lat. by Ob.</th><th>Varia.</th></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | | | | | | | Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | | | | | | | | | | | | |
|--|-------|------------|----------|--------------|-------------|--|---------|-------|------------|------|--------------|-------------|--------|--|--|--|--|--|--|--|
| 1 | | | | | | On Friday Dec 20 th | | | | | | | | | | | | | | |
| 2 | | | | | | Commenced fresh breeze and pleasant weather | | | | | | | | | | | | | | |
| 3 | | | | | | all sail set to the wind, a working out of the Great | | | | | | | | | | | | | | |
| 4 | | | | | | Baggage etc. American Ship in company | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | Course of Run, North by East, 10 miles | | | | | | | | | | | | | | |
| 8 | | | | | | Point of Land S by E & 4 1/2 miles | | | | | | | | | | | | | | |
| 9 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 10 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 11 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 12 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 1 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 2 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 3 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 4 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 5 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 6 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 7 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 8 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 9 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 10 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 11 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| 12 | | | | | | at night, weather clear, Ship sailed on Thursday | | | | | | | | | | | | | | |
| <table border="1"> <tr> <th>Course.</th><th>Dist.</th><th>Diff. lat.</th><th>Dep.</th><th>Lat. by D.R.</th><th>Lat. by Ob.</th><th>Varia.</th></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> | | | | | | | Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

25 Days

Ship *W. Paul* from *Manila* towards *Saturn*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|--------------------------------|
| 1 | | | | | | Commenced voyage at 5 p.m. |
| 2 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 3 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 4 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 5 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 6 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 7 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 8 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 9 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 10 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 11 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 12 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 1 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 2 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 3 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 4 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 5 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 6 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 7 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 8 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 9 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 10 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 11 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 12 | | | | | | At 1 P.M. set sail to S. 34 E. |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|--------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S. 34 E. | 28 1/2 | 1 1/4 | 102 | 111 | 104 1/2 | | | | |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|--------------------------------|
| 1 | | | | | | Commenced voyage at 5 p.m. |
| 2 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 3 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 4 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 5 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 6 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 7 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 8 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 9 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 10 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 11 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 12 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 1 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 2 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 3 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 4 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 5 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 6 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 7 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 8 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 9 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 10 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 11 | | | | | | At 1 P.M. set sail to S. 34 E. |
| 12 | | | | | | At 1 P.M. set sail to S. 34 E. |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S. 34 E. | 83 | 1 1/2 | 40 | 5 1/4 | 10 1/2 | | | | |

Handwritten notes in the right margin, including "Saturn" and other illegible text.

Handwritten notes at the bottom of the page, including "Saturn" and other illegible text.

From *Winnipeg* towards *Salmon*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|---------------------------------|
| 1 | | | | | | same course, light wind, & calm |
| 2 | | | | | | 14 Sail in night 1800 and |
| 3 | | | | | | you are the weather work |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | 2 | | | | | |
| 10 | 2 | | | | | |
| 11 | 2 | | | | | |
| 12 | 2 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 245 | 4 | 40 | 4 | 8.18 | | 9 | 3 | 1.51 | 103.41 |

H. K. H. K. Courses. Winds. Lee. Remarks. *From Sh - 24th 1887*

| | | | | | | |
|----|---|--|--|--|--|--|
| 1 | 2 | | | | | Calm. Calm. Calm!!!! |
| 2 | 3 | | | | | nothing but Calm. ¹⁸⁸⁷ |
| 3 | 3 | | | | | have well from the ship |
| 4 | 3 | | | | | making fine work for the |
| 5 | 2 | | | | | Sail makes. Last a steady |
| 6 | 2 | | | | | Ship a bounding about in sea |
| 7 | 2 | | | | | spot then a rising and then |
| 8 | 2 | | | | | monsoon came on, the boat |
| 9 | 2 | | | | | took the calm weather. But give |
| 10 | 1 | | | | | to me a set of light and a fine |
| 11 | 1 | | | | | weather. Breeze gradually a fine |
| 12 | 1 | | | | | the ship weather. In fact (the ship) ¹⁸⁸⁷ |
| 1 | | | | | | South all day a breeze before ship, shall be ready |
| 2 | | | | | | 14 hour set by her in sight. The ship has not had |
| 3 | | | | | | abundance of her for the last 48 |
| 4 | | | | | | hours. I am sure of her in sight |
| 5 | | | | | | in fact. The wind is blowing a fine |
| 6 | | | | | | that give us have got the ship in |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 324 | 24 | 22 | 8 | 8.42 | 0.17 | 3 | 10 | 24 | 103.1 |

21st 1887 32 Days

Ship *Sir Paul* from *Manilla* towards *Samar*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | 2 | | | | | |
| 8 | 2 | | | | | |
| 9 | 2 | | | | | |
| 10 | 2 | | | | | |
| 11 | 2 | | | | | |
| 12 | 2 | | | | | |
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|------------|-----------|------------|-------------|---------------|-------------|----------|-------------|--------------|--------------|
| <i>454</i> | <i>15</i> | <i>1</i> | <i>14.5</i> | <i>5.16</i> | <i>8.24</i> | <i>2</i> | <i>.15</i> | <i>105.8</i> | <i>2.57</i> |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 2 | | | | | |
| 11 | 2 | | | | | |
| 12 | 2 | | | | | |
| 1 | 2 | | | | | |
| 2 | 2 | | | | | |
| 3 | 1 | | | | | |
| 4 | 2 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | | | | |
| 7 | 2 | | | | | |
| 8 | 2 | | | | | |
| 9 | 2 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|------------|-----------|------------|-----------|---------------|-------------|----------|-------------|--------------|--------------|
| <i>546</i> | <i>25</i> | <i>15</i> | <i>21</i> | <i>8.42</i> | <i>8.15</i> | <i>7</i> | <i>22.0</i> | <i>102.4</i> | <i>10.24</i> |

Sum 1440

8th 1500

Ship Herald from Manila towards Sulu

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|------------------------------|
| 1 | 2 | | | | | Commence to lower rigging |
| 2 | 2 | | | | | and lower rigging is set |
| 3 | 2 | | | | | off the Deck |
| 4 | 2 | | | | | |
| 5 | 2 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | Strong gust the night before |
| 8 | 1 | | | | | only with falling Sulu |
| 9 | 1 | | | | | Bar |
| 10 | 1 | | | | | |
| 11 | 2 | | | | | |
| 12 | 5 | | | | | morning 100 fathoms |
| 1 | 1 | | | | | at 100 fms in the fore |
| 2 | 1 | | | | | by 100 fms from S & E |
| 3 | 2 | | | | | part in steam |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 1 | | | | | |
| 8 | 5 | | | | | at 100 fms in night |
| 9 | 5 | | | | | at 100 fms |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | at 100 fms in night |
| 12 | 5 | | | | | at 100 fms |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Vap. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|------|-------------|-----------|--------------|
| 5644 | 61 | 27 | 55 | 9 12 5 | 9 | | 60 151 | 101.41 | |

2108
2109

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|---------------------------|
| 1 | 5 | | | | | Commence to lower rigging |
| 2 | 5 | | | | | and lower rigging is set |
| 3 | 5 | | | | | off the Deck |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Vap. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|------|-------------|-----------|--------------|
| 5634 | 104 | 25 | 102 | 10 11 04 | 5 | | 1.44 | 100.44 | 99.25 |

2115 miles

80 fms

Ship *Thetis* from *Manila* towards *Salem*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | Sun. Dec 28 th 1852 | | | |
|---------|-------|------------|----------|---------------|-------------|----------|--------------------------------|-----------|--------------|--|
| 1 | 3 | | | | | | | | | |
| 2 | 5 | | | | | | | | | |
| 3 | 5 | | | | | | | | | |
| 4 | 5 | 1 | | | | | | | | |
| 5 | 5 | 1 | | | | | | | | |
| 6 | 6 | | | | | | | | | |
| 7 | 6 | | | | | | | | | |
| 8 | 6 | | | | | | | | | |
| 9 | 6 | | | | | | | | | |
| 10 | 6 | | | | | | | | | |
| 11 | 6 | | | | | | | | | |
| 12 | 6 | | | | | | | | | |
| 1 | 6 | | | | | | | | | |
| 2 | 5 | 1 | | | | | | | | |
| 3 | 5 | 1 | | | | | | | | |
| 4 | 5 | 1 | | | | | | | | |
| 5 | 6 | | | | | | | | | |
| 6 | 6 | | | | | | | | | |
| 7 | 6 | | | | | | | | | |
| 8 | 6 | | | | | | | | | |
| 9 | 7 | 1 | | | | | | | | |
| 10 | 7 | 1 | | | | | | | | |
| 11 | 7 | 1 | | | | | | | | |
| 12 | 7 | | | | | | | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | |
| 163.4 | 144 | 1.05 | 128 | 11.29 | 11.58 | 8 | 2.10 | 75.34 | 77.18 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | Mon. Dec 29 th 1852 | | | |
|---------|-------|------------|----------|---------------|-------------|----------|--------------------------------|-----------|--------------|--|
| 1 | 6 | | | | | | | | | |
| 2 | 6 | | | | | | | | | |
| 3 | 6 | | | | | | | | | |
| 4 | 6 | | | | | | | | | |
| 5 | 6 | | | | | | | | | |
| 6 | 6 | | | | | | | | | |
| 7 | 6 | | | | | | | | | |
| 8 | 6 | | | | | | | | | |
| 9 | 6 | 1 | | | | | | | | |
| 10 | 6 | 1 | | | | | | | | |
| 11 | 6 | 1 | | | | | | | | |
| 12 | 6 | | | | | | | | | |
| 1 | 7 | | | | | | | | | |
| 2 | 7 | | | | | | | | | |
| 3 | 7 | | | | | | | | | |
| 4 | 7 | | | | | | | | | |
| 5 | 8 | | | | | | | | | |
| 6 | 8 | | | | | | | | | |
| 7 | 8 | | | | | | | | | |
| 8 | 8 | | | | | | | | | |
| 9 | 8 | | | | | | | | | |
| 10 | 8 | | | | | | | | | |
| 11 | 8 | | | | | | | | | |
| 12 | 8 | | | | | | | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | |
| 161.5 | 166 | 1.20 | 165 | 12.18 | 12.22 | 2 | 2.29 | 76.09 | 78.53 | |

24 25

Ship *from* *Harwich* *onwards* *Salmon*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|-----------------------------|
| 1 | / | / | | | | Commenced strong breeze |
| 2 | / | / | | | | at present steady S.W. gale |
| 3 | / | / | | | | at the ship can bear more |
| 4 | / | / | | | | weather the sea calm in |
| 5 | / | / | | | | the night no rain |
| 6 | / | / | | | | |
| 7 | / | / | | | | |
| 8 | / | / | | | | |
| 9 | / | / | | | | |
| 10 | / | / | | | | |
| 11 | / | / | | | | |
| 12 | / | / | | | | |
| 1 | / | / | | | | |
| 2 | / | / | | | | |
| 3 | / | / | | | | |
| 4 | / | / | | | | |
| 5 | / | / | | | | |
| 6 | / | / | | | | |
| 7 | / | / | | | | |
| 8 | / | / | | | | |
| 9 | / | / | | | | |
| 10 | / | / | | | | |
| 11 | / | / | | | | |
| 12 | / | / | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 105 | 181 | 117 | 14 | 1352 | 1348 | 3 | 248 | 1352.08 | |

2000
miles

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|-----------------------------|
| 1 | / | / | | | | Commenced strong breeze and |
| 2 | / | / | | | | at present steady S.W. gale |
| 3 | / | / | | | | at the ship can bear more |
| 4 | / | / | | | | weather the sea calm in |
| 5 | / | / | | | | the night no rain |
| 6 | / | / | | | | |
| 7 | / | / | | | | |
| 8 | / | / | | | | |
| 9 | / | / | | | | |
| 10 | / | / | | | | |
| 11 | / | / | | | | |
| 12 | / | / | | | | |
| 1 | / | / | | | | |
| 2 | / | / | | | | |
| 3 | / | / | | | | |
| 4 | / | / | | | | |
| 5 | / | / | | | | |
| 6 | / | / | | | | |
| 7 | / | / | | | | |
| 8 | / | / | | | | |
| 9 | / | / | | | | |
| 10 | / | / | | | | |
| 11 | / | / | | | | |
| 12 | / | / | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 150 | 183 | 138 | 15 | 1328 | 1320 | 8 | 250 | 1328.31 | |

2779 miles
40 days out

Ship *the* from *Manila* towards *Sulu*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
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| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
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| 2 | | | | | | |
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| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|--------|-------------|-----------|--------------|
| S 55 W | 165 | 1.28 | 143 | 10 58 | 10 57 | 4 | 2.28 | 1759 | 1755 |

Ship *the* from *Sulu* towards *Manila*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
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| 12 | | | | | | |
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| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| S 64 W | 160 | 1.13 | 148 | 18 10 | 18 20 | 4 | 2 18 | 1847 | 1847 |

133 miles from *Manila* 12 Sept 1841

Ship *St. Andrew* from *Went* towards *Salem*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
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| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
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| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

40 25
miles

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 40 25 | 112 | 54 | 121 | 23.16 | 23.21 | 8 | 211 | 72.00 | 72.48 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
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| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

41 27

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 41 27 | 114 | 25 | 141 | 23.46 | 23.57 | 8 | 2.35 | 72.25 | 72.66 |

45

Ship *W. 2.* from *Manila* towards *Sulone*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | |
|---------|-------|------------|-----------|---------------|-------------|-----------------------------------|-------------|-----------|--------------|
| 1 | 6 | | W 6 1/2 S | 13 3/4 | | On Friday June 11 1850. | | | |
| 2 | 6 | | | | | Ship weighed anchor 24 hours ago. | | | |
| 3 | 6 | | | | | at 500 miles from Manila. | | | |
| 4 | 6 | | W 1/2 S | | | | | | |
| 5 | 6 | | | | | Manila embayed with a S.W. | | | |
| 6 | 6 | | | | | wind, the ship so late as 1850 | | | |
| 7 | 6 | | | | | was in the air. The ship | | | |
| 8 | 6 | | | | | was in the air. The ship | | | |
| 9 | 6 | | | | | was in the air. The ship | | | |
| 10 | 6 | | | | | was in the air. The ship | | | |
| 11 | 6 | | | | | was in the air. The ship | | | |
| 12 | 6 | | | | | was in the air. The ship | | | |
| 1 | 6 | | | | | On Friday June 11 1850. | | | |
| 2 | 6 | | | | | Manila embayed with a S.W. | | | |
| 3 | 6 | | | | | wind, the ship so late as 1850 | | | |
| 4 | 6 | | | | | was in the air. The ship | | | |
| 5 | 6 | | | | | was in the air. The ship | | | |
| 6 | 6 | | | | | was in the air. The ship | | | |
| 7 | 6 | | | | | was in the air. The ship | | | |
| 8 | 6 | | | | | was in the air. The ship | | | |
| 9 | 6 | | | | | was in the air. The ship | | | |
| 10 | 6 | | | | | was in the air. The ship | | | |
| 11 | 6 | | | | | was in the air. The ship | | | |
| 12 | 6 | | | | | was in the air. The ship | | | |
| Course. | Dist. | Diff. Lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| 12 1/2 | 136 | 42 | 12 1/2 | 24.37 | 24.41 | 7 | 222 | 12.05 | 92 14 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | | |
|---------|----|-------|------------|--------|---------------|-------------------------------|--------|-------------|-----------|--------------|
| 1 | 6 | | W 1/2 S | | | On Friday June 11 1850. | | | | |
| 2 | 6 | | | SE | | | | | | |
| 3 | 6 | | | | | | | | | |
| 4 | 6 | | | | | | | | | |
| 5 | 6 | | W 1/2 S | | | | | | | |
| 6 | 7 | | | | | | | | | |
| 7 | 7 | | | | | | | | | |
| 8 | 7 | | | | | She was at this time 24 miles | | | | |
| 9 | 7 | 1 | | | | from the Cape of Good Hope | | | | |
| 10 | 7 | 1 | | | | and the Cape of Good Hope | | | | |
| 11 | 7 | 1 | | | | was at this time 24 miles | | | | |
| 12 | 7 | 1 | | | | from the Cape of Good Hope | | | | |
| 1 | 6 | | | | | She was at this time 24 miles | | | | |
| 2 | 6 | | | | | from the Cape of Good Hope | | | | |
| 3 | 6 | | | | | and the Cape of Good Hope | | | | |
| 4 | 6 | 1 | | | | was at this time 24 miles | | | | |
| 5 | 6 | 1 | | | | from the Cape of Good Hope | | | | |
| 6 | 6 | | | | | and the Cape of Good Hope | | | | |
| 7 | 6 | | | | | was at this time 24 miles | | | | |
| 8 | 6 | | | | | from the Cape of Good Hope | | | | |
| 9 | 6 | | W 1/2 S | | | She was at this time 24 miles | | | | |
| 10 | 6 | | | | | and the Cape of Good Hope | | | | |
| 11 | 6 | | | | | was at this time 24 miles | | | | |
| 12 | 6 | | | | | from the Cape of Good Hope | | | | |
| <hr/> | | | | | | | | | | |
| Course. | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| 58. | | 131 | 22 | 132 | 25 01 | 25.11 | 10 | 220 | 44.38 | 85 16 |

Ship off *See* from *Hanul* towards *Salem*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----|----|-------|----------|--------|------------|----------|---------------|-------------|------------|-------------|---------------|--------------|--------|-------------|-----------|--------------|
| 1 | / | | W 1/2 S | | | | | | | | | | | | | |
| 2 | / | | | | | | | | | | | | | | | |
| 3 | / | | | | | | | | | | | | | | | |
| 4 | / | | | | | | | | | | | | | | | |
| 5 | / | | | | | | | | | | | | | | | |
| 6 | / | | | | | | | | | | | | | | | |
| 7 | / | | | | | | | | | | | | | | | |
| 8 | / | | | | | | | | | | | | | | | |
| 9 | / | | | | | | | | | | | | | | | |
| 10 | / | | | | | | | | | | | | | | | |
| 11 | / | | | | | | | | | | | | | | | |
| 12 | / | | | | | | | | | | | | | | | |
| 1 | / | | | | | | | | | | | | | | | |
| 2 | / | | | | | | | | | | | | | | | |
| 3 | / | | | | | | | | | | | | | | | |
| 4 | / | | | | | | | | | | | | | | | |
| 5 | / | | | | | | | | | | | | | | | |
| 6 | / | | | | | | | | | | | | | | | |
| 7 | / | | | | | | | | | | | | | | | |
| 8 | / | | | | | | | | | | | | | | | |
| 9 | / | | | | | | | | | | | | | | | |
| 10 | / | | | | | | | | | | | | | | | |
| 11 | / | | | | | | | | | | | | | | | |
| 12 | / | | | | | | | | | | | | | | | |
| | | | Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | | | | |
| | | | 177 1/2 | 150 | 54 | 1/6 | 28 45 | 28 12 | 11 | 2 42 | 6 57 | 63 08 | | | | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----|----|-------|----------|--------|------------|----------|---------------|-------------|------------|-------------|---------------|--------------|--------|-------------|-----------|--------------|
| 1 | / | | West | | | | | | | | | | | | | |
| 2 | / | | | | | | | | | | | | | | | |
| 3 | / | | | | | | | | | | | | | | | |
| 4 | / | | | | | | | | | | | | | | | |
| 5 | / | | | | | | | | | | | | | | | |
| 6 | / | | | | | | | | | | | | | | | |
| 7 | / | | | | | | | | | | | | | | | |
| 8 | / | | | | | | | | | | | | | | | |
| 9 | / | | | | | | | | | | | | | | | |
| 10 | / | | | | | | | | | | | | | | | |
| 11 | / | | | | | | | | | | | | | | | |
| 12 | / | | | | | | | | | | | | | | | |
| 1 | / | | | | | | | | | | | | | | | |
| 2 | / | | | | | | | | | | | | | | | |
| 3 | / | | | | | | | | | | | | | | | |
| 4 | / | | | | | | | | | | | | | | | |
| 5 | / | | | | | | | | | | | | | | | |
| 6 | / | | | | | | | | | | | | | | | |
| 7 | / | | | | | | | | | | | | | | | |
| 8 | / | | | | | | | | | | | | | | | |
| 9 | / | | | | | | | | | | | | | | | |
| 10 | / | | | | | | | | | | | | | | | |
| 11 | / | | | | | | | | | | | | | | | |
| 12 | / | | | | | | | | | | | | | | | |
| | | | Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | | | | |
| | | | 181 1/2 | 170 | 26 | 1/6 | 26 08 | 26 00 | 11 | 3 07 | 55 48 | 60 00 | | | | |

4570

22 Sept 1840

Ship Steamer from Manila towards Salome

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|-------------------------------|
| 1 | 9 | | W 1/2 S | Ob | | Commenced sailing at 10 AM |
| 2 | 7 | | | | | fine pleasant sea this AM |
| 3 | 6 | | | | | 2nd Lt. equally in all this |
| 4 | 6 | | | | | AM. H. 4 1/2 knots weather |
| 5 | 6 | | | | | both Sea & part of the day |
| 6 | 6 | | | | | 21 5 knots lower & 21 1/2 |
| 7 | 6 | | | | | 21 1/2 knots |
| 8 | 6 | | | | | |
| 9 | 7 | | | | | |
| 10 | 7 | | | | | |
| 11 | 7 | | | | | |
| 12 | 5 | | | | | Steamer kept the log 1/2 knot |
| 1 | 5 | | | | | may 5 AM good Salome |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 4 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 5 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 6 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 7 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 8 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 9 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 10 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 11 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 12 | 5 | | | | | 2nd Lt. saw 1st Lt. on |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. It. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|----------------|-------------|--------|-------------|-----------|--------------|
| 283 1/2 | 134 | 16 | 133 | 20.16 | 20.24 | 18 | 236 | 115.5 | 115.4 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|-------------------------------|
| 1 | 5 | | W 1/2 S | Ob | | Commenced sailing at 10 AM |
| 2 | 5 | | | | | fine pleasant sea this AM |
| 3 | 5 | | | | | 2nd Lt. equally in all this |
| 4 | 5 | | | | | AM. H. 4 1/2 knots weather |
| 5 | 5 | | | | | both Sea & part of the day |
| 6 | 5 | | | | | 21 5 knots lower & 21 1/2 |
| 7 | 5 | | | | | 21 1/2 knots |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | Steamer kept the log 1/2 knot |
| 1 | 5 | | | | | may 5 AM good Salome |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 4 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 5 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 6 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 7 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 8 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 9 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 10 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 11 | 5 | | | | | 2nd Lt. saw 1st Lt. on |
| 12 | 5 | | | | | 2nd Lt. saw 1st Lt. on |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 284 | 120 | 8 | 120 | 20.32 | 20.32 | 16 | 214 | 116.0 | 116.0 |

5 126
5 126
5 126

5 126

Ship Haul from Manila towards Saline

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|------------------------------------|
| 1 | 5 | | | | | Through the five shoes |
| 2 | 5 | | | | | and parent leather |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | All slams a nuptial putting |
| 5 | 5 | | | | | making going on Main & L. ship |
| 6 | 5 | | | | | very different now fore braces etc |
| 7 | 5 | | | | | but so safe |
| 8 | 5 | 1 | | | | |
| 9 | 5 | 1 | | | | |
| 10 | 5 | 1 | | | | |
| 11 | 5 | | | | | not even a drop of them on going |
| 12 | 5 | | | | | very high and sailing then |
| 1 | 5 | | | | | we have a very sharp up & down |
| 2 | 5 | 1 | | | | what is known what in hill & sea |
| 3 | 5 | 1 | | | | what is known what in hill & sea |
| 4 | 5 | 1 | | | | what is known what in hill & sea |
| 5 | 5 | | | | | what is known what in hill & sea |
| 6 | 5 | | | | | what is known what in hill & sea |
| 7 | 5 | | | | | what is known what in hill & sea |
| 8 | 5 | | | | | what is known what in hill & sea |
| 9 | 5 | | | | | what is known what in hill & sea |
| 10 | 5 | | | | | what is known what in hill & sea |
| 11 | 5 | | | | | what is known what in hill & sea |
| 12 | 5 | | | | | what is known what in hill & sea |

| Course. | Dist. | Dist. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Dist. long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 5 2 1 | 123 | 121 | 17 | 26 19 | 26 11 | 18 | 216 | 548 | 53.36 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|--------------------------------|
| 1 | 5 | | | | | Ship 24 hours ago in the water |
| 2 | 5 | | | | | Ship 24 hours ago in the water |
| 3 | 5 | | | | | Ship 24 hours ago in the water |
| 4 | 5 | | | | | Ship 24 hours ago in the water |
| 5 | 5 | | | | | Ship 24 hours ago in the water |
| 6 | 5 | | | | | Ship 24 hours ago in the water |
| 7 | 5 | | | | | Ship 24 hours ago in the water |
| 8 | 5 | | | | | Ship 24 hours ago in the water |
| 9 | 5 | | | | | Ship 24 hours ago in the water |
| 10 | 5 | | | | | Ship 24 hours ago in the water |
| 11 | 5 | | | | | Ship 24 hours ago in the water |
| 12 | 5 | | | | | Ship 24 hours ago in the water |
| 1 | 5 | | | | | Ship 24 hours ago in the water |
| 2 | 5 | | | | | Ship 24 hours ago in the water |
| 3 | 5 | | | | | Ship 24 hours ago in the water |
| 4 | 5 | | | | | Ship 24 hours ago in the water |
| 5 | 5 | | | | | Ship 24 hours ago in the water |
| 6 | 5 | | | | | Ship 24 hours ago in the water |
| 7 | 5 | | | | | Ship 24 hours ago in the water |
| 8 | 5 | | | | | Ship 24 hours ago in the water |
| 9 | 5 | | | | | Ship 24 hours ago in the water |
| 10 | 5 | | | | | Ship 24 hours ago in the water |
| 11 | 5 | | | | | Ship 24 hours ago in the water |
| 12 | 5 | | | | | Ship 24 hours ago in the water |

| Course. | Dist. | Dist. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Dist. long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 5 1 1 | 132 | 21 | 15 | 27 1 | 27 13 | 18 | 227 | 558 | 57.66 |

54 52

54 52

Ship *Steamer* from *Manila* towards *Savene*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | Course. | Dist. | Diff. lat. | Dep. | Lat. by A. B. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----|----|------|----------|--------|------|----------------------------------|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | 1 | | 1/2 S | 1/2 S | | Longer in line of coast and | 180 | 131 | 25 | 130 | 27.54 | 27.45 | 18 | 2.26 | 46.53 | 178.44 |
| 2 | 1 | | | | | coast. Weather | | | | | | | | | | |
| 3 | 1 | | | | | All Steamers employed in various | | | | | | | | | | |
| 4 | 1 | | | | | in ship's wake. Carpenter | | | | | | | | | | |
| 5 | 1 | | | | | working and repairing | | | | | | | | | | |
| 6 | 1 | | | | | in light work. | | | | | | | | | | |
| 7 | 1 | | | | | | | | | | | | | | | |
| 8 | 1 | | | | | | | | | | | | | | | |
| 9 | 1 | | | | | | | | | | | | | | | |
| 10 | 1 | | | | | | | | | | | | | | | |
| 11 | 1 | | | | | | | | | | | | | | | |
| 12 | 1 | | | | | | | | | | | | | | | |
| 1 | 2 | | | | | midnight speak in ship | | | | | | | | | | |
| 2 | 2 | | | | | chairs & light. Lights burning | | | | | | | | | | |
| 3 | 2 | | | | | better weather yet than sea | | | | | | | | | | |
| 4 | 2 | | | | | | | | | | | | | | | |
| 5 | 2 | | | | | | | | | | | | | | | |
| 6 | 2 | | | | | | | | | | | | | | | |
| 7 | 2 | | | | | | | | | | | | | | | |
| 8 | 2 | | | | | | | | | | | | | | | |
| 9 | 2 | | | | | | | | | | | | | | | |
| 10 | 2 | | | | | | | | | | | | | | | |
| 11 | 2 | | | | | | | | | | | | | | | |
| 12 | 2 | | | | | | | | | | | | | | | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | Course. | Dist. | Diff. lat. | Dep. | Lat. by A. B. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|----|----|------|----------|--------|------|----------------------------------|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 1 | 1 | | 1/2 S | 1/2 S | | Longer in line of coast and | 180 | 131 | 25 | 130 | 27.54 | 27.45 | 18 | 2.26 | 46.53 | 178.44 |
| 2 | 1 | | | | | coast. Weather | | | | | | | | | | |
| 3 | 1 | | | | | All Steamers employed in various | | | | | | | | | | |
| 4 | 1 | | | | | in ship's wake. Carpenter | | | | | | | | | | |
| 5 | 1 | | | | | working and repairing | | | | | | | | | | |
| 6 | 1 | | | | | in light work. | | | | | | | | | | |
| 7 | 1 | | | | | | | | | | | | | | | |
| 8 | 1 | | | | | | | | | | | | | | | |
| 9 | 1 | | | | | | | | | | | | | | | |
| 10 | 1 | | | | | | | | | | | | | | | |
| 11 | 1 | | | | | | | | | | | | | | | |
| 12 | 1 | | | | | | | | | | | | | | | |
| 1 | 2 | | | | | midnight speak in ship | | | | | | | | | | |
| 2 | 2 | | | | | chairs & light. Lights burning | | | | | | | | | | |
| 3 | 2 | | | | | better weather yet than sea | | | | | | | | | | |
| 4 | 2 | | | | | | | | | | | | | | | |
| 5 | 2 | | | | | | | | | | | | | | | |
| 6 | 2 | | | | | | | | | | | | | | | |
| 7 | 2 | | | | | | | | | | | | | | | |
| 8 | 2 | | | | | | | | | | | | | | | |
| 9 | 2 | | | | | | | | | | | | | | | |
| 10 | 2 | | | | | | | | | | | | | | | |
| 11 | 2 | | | | | | | | | | | | | | | |
| 12 | 2 | | | | | | | | | | | | | | | |

55 Longitude

Ship *St. Paul* from *Manila* towards *Solon*

| H. K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|-------|-------|----------|--------|-----|--------------------------------------|
| 1 | 7 | | | | begin to see some birds and |
| 2 | 7 | | | | spica birds etc. |
| 3 | 7 | | | | |
| 4 | 7 | | | | At 2 P.M. heavy squalls with rain |
| 5 | 7 | | | | strong SE wind 14 to 15 |
| 6 | 7 | | | | |
| 7 | 1 | | | | At 3 P.M. Sea began to swell |
| 8 | 1 | | | | |
| 9 | 1 | | | | |
| 10 | 1 | | | | Sea in the fore and aft with heavy |
| 11 | 1 | | | | swell from SE by NW & West |
| 12 | 1 | | | | |
| 1 | 1 | | | | At 10 P.M. saw 1 large fly & 1 large |
| 2 | 1 | | | | sea & 1 large fly & 1 large |
| 3 | 1 | | | | sea & 1 large fly & 1 large |
| 4 | 1 | | | | sea & 1 large fly & 1 large |
| 5 | 1 | | | | sea & 1 large fly & 1 large |
| 6 | 1 | | | | sea & 1 large fly & 1 large |
| 7 | 1 | | | | sea & 1 large fly & 1 large |
| 8 | 1 | | | | sea & 1 large fly & 1 large |
| 9 | 1 | | | | sea & 1 large fly & 1 large |
| 10 | 1 | | | | sea & 1 large fly & 1 large |
| 11 | 1 | | | | sea & 1 large fly & 1 large |
| 12 | 1 | | | | sea & 1 large fly & 1 large |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 181 | 156 | 24 | 154 | 28.45 | 28.45 | 20 | 255 | 41.24 | 46 |

5800

Ship *St. Paul* from *Manila* towards *Solon*

| H. K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|-------|-------|----------|--------|-----|--------------------------------------|
| 1 | 6 | | | | At 10 P.M. saw 1 large fly & 1 large |
| 2 | 6 | | | | sea & 1 large fly & 1 large |
| 3 | 6 | | | | sea & 1 large fly & 1 large |
| 4 | 6 | | | | sea & 1 large fly & 1 large |
| 5 | 6 | | | | sea & 1 large fly & 1 large |
| 6 | 6 | | | | sea & 1 large fly & 1 large |
| 7 | 1 | | | | sea & 1 large fly & 1 large |
| 8 | 1 | | | | sea & 1 large fly & 1 large |
| 9 | 1 | | | | sea & 1 large fly & 1 large |
| 10 | 1 | | | | sea & 1 large fly & 1 large |
| 11 | 1 | | | | sea & 1 large fly & 1 large |
| 12 | 1 | | | | sea & 1 large fly & 1 large |
| 1 | 1 | | | | sea & 1 large fly & 1 large |
| 2 | 1 | | | | sea & 1 large fly & 1 large |
| 3 | 1 | | | | sea & 1 large fly & 1 large |
| 4 | 1 | | | | sea & 1 large fly & 1 large |
| 5 | 1 | | | | sea & 1 large fly & 1 large |
| 6 | 1 | | | | sea & 1 large fly & 1 large |
| 7 | 1 | | | | sea & 1 large fly & 1 large |
| 8 | 1 | | | | sea & 1 large fly & 1 large |
| 9 | 1 | | | | sea & 1 large fly & 1 large |
| 10 | 1 | | | | sea & 1 large fly & 1 large |
| 11 | 1 | | | | sea & 1 large fly & 1 large |
| 12 | 1 | | | | sea & 1 large fly & 1 large |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 176 | 149 | 32 | 144 | 29.24 | 28.55 | 25 | 245 | 37.07 | |

5855

60 days on

Ship *Warrant* from *Manila* towards *Salem*

| H. K. | H.K. | Courses. | Winds. | Lec. | Remarks. | On Wednesday Jan 12 1840 | | | |
|---------|-------|------------|--------|---------------|---------------------------------|--------------------------|-------------|-----------|--------------|
| 1 | 6 | W N | E 50 | | First part good breeze and fine | | | | |
| 2 | 6 | | | | at 11 AM. Evening sail set | | | | |
| 3 | 6 | | | | at 1 PM | | | | |
| 4 | 6 | | | | | | | | |
| 5 | 6 | | | | | | | | |
| 6 | 6 | | | | in the part good breeze and | | | | |
| 7 | 6 | | | | very much at 1 PM 3 PM | | | | |
| 8 | 6 | | | | at 2 PM. Part of the night | | | | |
| 9 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 10 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 11 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 12 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 1 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 2 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 3 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 4 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 5 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 6 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 7 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 8 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 9 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 10 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 11 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| 12 | 6 | 1 | | | at 11 PM. Part of the night | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| W 76 | 75 | 36 | 145 | 29.1 | 27.5 | 25 | 240 | 86.21 | 95.30 |

| H. K. | H.K. | Courses. | Winds. | Lec. | Remarks. | On Thursday Jan 23 1840 | | | |
|---------|-------|------------|--------|---------------|---------------------------------|-------------------------|-------------|-----------|--------------|
| 1 | 5 | | | | First part good breeze and fine | | | | |
| 2 | 5 | | | | at 11 AM. Evening sail set | | | | |
| 3 | 5 | | | | at 1 PM | | | | |
| 4 | 5 | | | | | | | | |
| 5 | 5 | | | | | | | | |
| 6 | 5 | | | | in the part good breeze and | | | | |
| 7 | 5 | | | | very much at 1 PM 3 PM | | | | |
| 8 | 5 | | | | at 2 PM. Part of the night | | | | |
| 9 | 5 | | | | at 11 PM. Part of the night | | | | |
| 10 | 5 | | | | at 11 PM. Part of the night | | | | |
| 11 | 5 | | | | at 11 PM. Part of the night | | | | |
| 12 | 5 | | | | at 11 PM. Part of the night | | | | |
| 1 | 5 | | | | at 11 PM. Part of the night | | | | |
| 2 | 5 | | | | at 11 PM. Part of the night | | | | |
| 3 | 5 | | | | at 11 PM. Part of the night | | | | |
| 4 | 5 | | | | at 11 PM. Part of the night | | | | |
| 5 | 5 | | | | at 11 PM. Part of the night | | | | |
| 6 | 5 | | | | at 11 PM. Part of the night | | | | |
| 7 | 5 | | | | at 11 PM. Part of the night | | | | |
| 8 | 5 | | | | at 11 PM. Part of the night | | | | |
| 9 | 5 | | | | at 11 PM. Part of the night | | | | |
| 10 | 5 | | | | at 11 PM. Part of the night | | | | |
| 11 | 5 | | | | at 11 PM. Part of the night | | | | |
| 12 | 5 | | | | at 11 PM. Part of the night | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| W 34 | 134 | 35 | 124 | 30.28 | 30.33 | 25 | 228 | 53.59 | 55.40 |

62 Jan 24

Ship *Mercury* from *Manila* towards *Salem*

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|--------------------------------------|
| 1 | 2 | | | | | Ship's sail here has been torn |
| 2 | 3 | | | | | Lighter water, some light rain |
| 3 | 4 | | | | | and some of the fore part of the |
| 4 | 5 | | | | | Ship's sail & Spaker Grop |
| 5 | 6 | | | | | Compassing, Rump from both. Carps |
| 6 | 7 | | | | | are very fine & clear in |
| 7 | 8 | | | | | air at present |
| 8 | 9 | | | | | but all was not here in been |
| 9 | 10 | | | | | for the last month or there |
| 10 | 11 | | | | | months, now none now - only four per |
| 11 | 12 | | | | | of the year, there is a fine of the |
| 1 | 2 | | | | | to make it much and what |
| 2 | 3 | | | | | in months will come - thank the |
| 3 | 4 | | | | | old Lord and the other in |
| 4 | 5 | | | | | Manila for that give him a |
| 5 | 6 | | | | | Bar from in my clothes & pieces |
| 6 | 7 | | | | | |
| 7 | 8 | | | | | |
| 8 | 9 | | | | | |
| 9 | 10 | | | | | |
| 10 | 11 | | | | | |
| 11 | 12 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|--------|---------------|-------------|--------|-------------|-----------|--------------|
| 15 | 54 | 141 | 51. 27 | | | | 2. 45 | 31. 08 | 32. 59 DR |

On *Saturday* Jan 26th 1740

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|--------------------------------------|
| 1 | 2 | | | | | Compassing, Rump from both. Carps |
| 2 | 3 | | | | | are very fine & clear in |
| 3 | 4 | | | | | air at present |
| 4 | 5 | | | | | but all was not here in been |
| 5 | 6 | | | | | for the last month or there |
| 6 | 7 | | | | | months, now none now - only four per |
| 7 | 8 | | | | | of the year, there is a fine of the |
| 8 | 9 | | | | | to make it much and what |
| 9 | 10 | | | | | in months will come - thank the |
| 10 | 11 | | | | | old Lord and the other in |
| 11 | 12 | | | | | Manila for that give him a |
| 1 | 2 | | | | | Bar from in my clothes & pieces |
| 2 | 3 | | | | | |
| 3 | 4 | | | | | |
| 4 | 5 | | | | | |
| 5 | 6 | | | | | |
| 6 | 7 | | | | | |
| 7 | 8 | | | | | |
| 8 | 9 | | | | | |
| 9 | 10 | | | | | |
| 10 | 11 | | | | | |
| 11 | 12 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|--------|---------------|-------------|--------|-------------|-----------|--------------|
| 83 | 34 | 76 | 32. 01 | 32. 09 | | 2. 5 | 29. 30 | 31. 55 | |

572

64

Ship *Star* from *Munila* towards *Salem*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------------|--------|------|-------------------------|
| 1 | 4 | 1 | W. by S. by E. | | | 1000 miles in 10 days |
| 2 | 4 | 1 | W. by S. by E. | | | 2000 miles in 20 days |
| 3 | 4 | 1 | W. by S. by E. | | | 3000 miles in 30 days |
| 4 | 4 | 1 | W. by S. by E. | | | 4000 miles in 40 days |
| 5 | 4 | 1 | W. by S. by E. | | | 5000 miles in 50 days |
| 6 | 4 | 1 | W. by S. by E. | | | 6000 miles in 60 days |
| 7 | 4 | 1 | W. by S. by E. | | | 7000 miles in 70 days |
| 8 | 4 | 1 | W. by S. by E. | | | 8000 miles in 80 days |
| 9 | 4 | 1 | W. by S. by E. | | | 9000 miles in 90 days |
| 10 | 4 | 1 | W. by S. by E. | | | 10000 miles in 100 days |
| 11 | 4 | 1 | W. by S. by E. | | | 11000 miles in 110 days |
| 12 | 4 | 1 | W. by S. by E. | | | 12000 miles in 120 days |

| Course. | Dist. | Dist. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by D. R. | Long. by Ob. |
|----------------|-------|------------|------|---------------|-------------|--------|-------------|----------------|--------------|
| W. by S. by E. | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------------|--------|------|-------------------------|
| 1 | 4 | 1 | W. by S. by E. | | | 1000 miles in 10 days |
| 2 | 4 | 1 | W. by S. by E. | | | 2000 miles in 20 days |
| 3 | 4 | 1 | W. by S. by E. | | | 3000 miles in 30 days |
| 4 | 4 | 1 | W. by S. by E. | | | 4000 miles in 40 days |
| 5 | 4 | 1 | W. by S. by E. | | | 5000 miles in 50 days |
| 6 | 4 | 1 | W. by S. by E. | | | 6000 miles in 60 days |
| 7 | 4 | 1 | W. by S. by E. | | | 7000 miles in 70 days |
| 8 | 4 | 1 | W. by S. by E. | | | 8000 miles in 80 days |
| 9 | 4 | 1 | W. by S. by E. | | | 9000 miles in 90 days |
| 10 | 4 | 1 | W. by S. by E. | | | 10000 miles in 100 days |
| 11 | 4 | 1 | W. by S. by E. | | | 11000 miles in 110 days |
| 12 | 4 | 1 | W. by S. by E. | | | 12000 miles in 120 days |

| Course. | Dist. | Dist. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by D. R. | Long. by Ob. |
|----------------|-------|------------|------|---------------|-------------|--------|-------------|----------------|--------------|
| W. by S. by E. | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |

66 Days out

from *Hawaii* towards *Silene*

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by Ob. |
|---------|-------|---------------|-------------|--------|-------------|-----------------|
| SE 87 | 7 | 87 | 34.12 | 48 | 28 | 145 23.58 25.20 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by Ob. |
|---------|-------|---------------|-------------|--------|-------------|-----------------|
| SE 87 | 56 | 54 | 34.35 | 34.16 | 28 | 1.06 22.32 24.1 |

887
87

884
84

88 Days out

Ship St. from Havana towards

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 1 | | | | | |
| 2 | 1 | 1 | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |
| 1 | 1 | 1 | | | | |
| 2 | 1 | 1 | | | | |
| 3 | 1 | 1 | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | 1 | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 166 | 147 | 47 | 107 | 35 09 | 35 15 | 25 | 217 | 26 21 | 21 51 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 1 | | | | | |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 166 | 147 | 102 | 151 | 34.13 | 34 12 | 25 | 241 | 17 41 | 18 15 |

107 *70*

Ship *Hebe* from *Manila* towards *Sulu*

H. K. H. K. Courses. Winds. Lee. Remarks. *Saturday Sept 1st 1840*

| | | | | | | |
|----|---|--|--|--|--|---|
| 1 | 8 | | | | | Commenced very strong breeze |
| 2 | 8 | | | | | and the weather |
| 3 | 8 | | | | | at 4 th 11 th 1 st 1 st the sun |
| 4 | 8 | | | | | and the |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |
| 1 | 8 | | | | | |
| 2 | 8 | | | | | |
| 3 | 8 | | | | | |
| 4 | 8 | | | | | |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

ANNO

| Course | Dist. | Dist. lat. | Dist. long. | Lat. by D. R. | Lat. by Ob. | Varia. | Dist. long. | Long. by D. R. | Long. by Ob. |
|-------------|------------|------------|-------------|---------------|-------------|-----------|-------------|----------------|--------------|
| <i>1240</i> | <i>147</i> | <i>20</i> | <i>145</i> | <i>3240</i> | <i>233</i> | <i>21</i> | <i>232</i> | <i>1449</i> | <i>15.07</i> |

H. K. H. K. Courses. Winds. Lee. Remarks. *Sunday Sept 2nd 1840*

| | | | | | | |
|----|---|--|--|--|--|---|
| 1 | 8 | | | | | Commenced very strong breeze |
| 2 | 8 | | | | | and the weather |
| 3 | 8 | | | | | at 4 th 11 th 1 st 1 st the sun |
| 4 | 8 | | | | | and the |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |
| 1 | 8 | | | | | |
| 2 | 8 | | | | | |
| 3 | 8 | | | | | |
| 4 | 8 | | | | | |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | | | | | |
| 12 | 8 | | | | | |

| Course | Dist. | Dist. lat. | Dist. long. | Lat. by D. R. | Lat. by Ob. | Varia. | Dist. long. | Long. by D. R. | Long. by Ob. |
|-------------|------------|------------|-------------|---------------|-------------|-----------|-------------|----------------|--------------|
| <i>1524</i> | <i>147</i> | <i>20</i> | <i>155</i> | <i>3033</i> | <i>38</i> | <i>24</i> | <i>3.02</i> | <i>11.47</i> | <i>11.56</i> |

7274

1491

7274

Ship *Star* from *Varina* towards *Sierra*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|------------|--------|------|----------------------------|
| 1 | 7 | | North by E | | | Commenced strong breeze |
| 2 | 7 | | | | | and freshened |
| 3 | 7 | | | | | the wind shifted to S by E |
| 4 | 7 | | | | | and freshened |
| 5 | 7 | | | | | the wind shifted to S by E |
| 6 | 7 | | | | | and freshened |
| 7 | 7 | 1 | | | | the wind shifted to S by E |
| 8 | 7 | 1 | | | | and freshened |
| 9 | 7 | 1 | | | | the wind shifted to S by E |
| 10 | 7 | 1 | | | | and freshened |
| 11 | 7 | 1 | | | | the wind shifted to S by E |
| 12 | 7 | 1 | | | | and freshened |
| 1 | 7 | 1 | | | | the wind shifted to S by E |
| 2 | 7 | 1 | | | | and freshened |
| 3 | 7 | 1 | | | | the wind shifted to S by E |
| 4 | 7 | 1 | | | | and freshened |
| 5 | 7 | 1 | | | | the wind shifted to S by E |
| 6 | 7 | 1 | | | | and freshened |
| 7 | 7 | 1 | | | | the wind shifted to S by E |
| 8 | 7 | 1 | | | | and freshened |
| 9 | 7 | 1 | | | | the wind shifted to S by E |
| 10 | 7 | 1 | | | | and freshened |
| 11 | 7 | 1 | | | | the wind shifted to S by E |
| 12 | 7 | 1 | | | | and freshened |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by A. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 152 | 177 | 1.52 | 111 | 25 47 | 25 48 | 24 | 248 | 8.04 | 24 |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|------------|--------|------|----------------------------|
| 1 | 7 | | N N W by W | | | Commenced strong breeze |
| 2 | 7 | | | | | and freshened |
| 3 | 7 | | | | | the wind shifted to S by E |
| 4 | 7 | | | | | and freshened |
| 5 | 7 | | | | | the wind shifted to S by E |
| 6 | 7 | | | | | and freshened |
| 7 | 7 | | | | | the wind shifted to S by E |
| 8 | 7 | | | | | and freshened |
| 9 | 7 | | | | | the wind shifted to S by E |
| 10 | 7 | | | | | and freshened |
| 11 | 7 | | | | | the wind shifted to S by E |
| 12 | 7 | | | | | and freshened |
| 1 | 7 | | | | | the wind shifted to S by E |
| 2 | 7 | | | | | and freshened |
| 3 | 7 | | | | | the wind shifted to S by E |
| 4 | 7 | | | | | and freshened |
| 5 | 7 | | | | | the wind shifted to S by E |
| 6 | 7 | | | | | and freshened |
| 7 | 7 | | | | | the wind shifted to S by E |
| 8 | 7 | | | | | and freshened |
| 9 | 7 | 1 | | | | the wind shifted to S by E |
| 10 | 7 | 1 | | | | and freshened |
| 11 | 7 | 1 | | | | the wind shifted to S by E |
| 12 | 7 | 1 | | | | and freshened |

| Course. | Dist. | Diff. Lat. | Dep. | Lat. by A. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 150 | 155 | 1.40 | 111 | 25 30 | 25 42 | 22 | 214 | 8.50 | 23 |

24 Sept 1840

Ship from Manila towards London

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
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| 11 | | | | | | |
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| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. Lat. | Dép. | Lat. by O. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|-------|---------------|-------------|--------|-------------|-----------|--------------|
| 150.4 | 110 | 1.15 | 88.25 | 27 | 25.45 | 22 | 138 | 5.12 | 5.19 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
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| 11 | | | | | | |
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| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. Lat. | Dép. | Lat. by O. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 150.4 | 102 | 54 | 62 | 24.57 | 24.23 | 21 | 1.07 | 4.03 | 4.07 |

7941

229

78

| H. K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|-------|------|----------|--------|------|-------------------------------------|
| 1 | / | | | | 1st Period Feb 7 th 1894 |
| 2 | / | | | | Thurs Jan 24 hours on |
| 3 | / | | | | and weather |
| 4 | / | | | | |
| 5 | / | | | | |
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| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|------------------|
| 1 | 5 | | | | | On 11th Aug 1840 |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | 1 | | | | |
| 10 | 5 | 1 | | | | |
| 11 | 5 | 1 | | | | |
| 12 | 5 | 1 | | | | |
| 1 | 5 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | 1 | | | | |
| 6 | 5 | 1 | | | | |
| 7 | 5 | 1 | | | | |
| 8 | 5 | 1 | | | | |
| 9 | 5 | 1 | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

248
1885
1885

Ship Paul from Manila towards Saline

| H. | K. | H. K. | Courses. | Wind | Lee | Remarks. |
|----|----|-------|----------|------|-----|----------|
| 1 | 5 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | 1 | | | | |
| 7 | 5 | 1 | | | | |
| 8 | 5 | 1 | | | | |
| 9 | 5 | 1 | | | | |
| 10 | 5 | 1 | | | | |
| 11 | 5 | 1 | | | | |
| 12 | 5 | 1 | | | | |
| 1 | 5 | 1 | | | | |
| 2 | 5 | 1 | | | | |
| 3 | 5 | 1 | | | | |
| 4 | 5 | 1 | | | | |
| 5 | 5 | 1 | | | | |
| 6 | 5 | 1 | | | | |
| 7 | 5 | 1 | | | | |
| 8 | 5 | 1 | | | | |
| 9 | 5 | 1 | | | | |
| 10 | 5 | 1 | | | | |
| 11 | 5 | 1 | | | | |
| 12 | 5 | 1 | | | | |

St. Lawrence Bay

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|-------------|
| 1 | 127 | 142 | 142 | 75 | 1256 | 20 | 20 | 142 | 142 |

8407

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
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| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
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| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|-------------|
| 1 | 116 | 128 | 76 | 15 32 | 15 55 | 19 | 121 | 2.03 | 3.07 |

8523

S. J. Payne

Ship *from Manila* *towards* *Sulu*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
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| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 153 | 113 | 153 | 45 | 17.5 | 17.2 | 1 | 109.3 | 304.27 | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
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| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 153 | 103 | 150 | 45 | 17.5 | 17.2 | 1 | 109.3 | 304.27 | |

38

15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30.

15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30.

15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30. 15.30.

[illegible]

High Sea from Manila towards Laredo

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|------------------------------------|
| 1 | | | | | | Lat. 15° 15' N |
| 2 | | | | | | At 10 AM received report |
| 3 | | | | | | of a ship named "Baque" in our way |
| 4 | 15 | 53 | | 5.58 | | At 7 PM "Baque" was sighted |
| 5 | | | | | | and at 8 PM she was lost |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | 4 | | | | | |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 3 | 1 | | | | |
| 12 | 3 | | | | | |
| 1 | 3 | 1 | | | | |
| 2 | 3 | | | | | |
| 3 | 3 | 1 | | | | |
| 4 | 3 | 1 | | | | |
| 5 | 3 | | | | | |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | 1 | | | | |
| 10 | 3 | | | | | |
| 11 | 3 | 1 | | | | |
| 12 | 3 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 150° | 82 | 41 | 21 | 15 | 14 | 15 | 17 | 119 | 65° 53' |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | 4 | | | | | |
| 2 | 4 | | | | | |
| 3 | 4 | | | | | |
| 4 | 4 | | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | |
| 8 | 4 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | 1 | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | 1 | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 108° | 109 | 100 | 91 | 14.19 | 14.25 | 1° | 135 | 82° 5' | 81° |

Ship *Mermaid* from *Hanalei* towards *Savaii*

| H. | K. | H. K. | Courses. | Wind. | Lee | Remarks. |
|----|----|-------|----------|-------|-----|----------|
| 1 | s | | | | | |
| 2 | s | | | | | |
| 3 | s | | | | | |
| 4 | s | | | | | |
| 5 | s | | | | | |
| 6 | s | | | | | |
| 7 | s | | | | | |
| 8 | s | | | | | |
| 9 | s | | | | | |
| 10 | s | | | | | |
| 11 | s | | | | | |
| 12 | s | | | | | |
| 1 | s | | | | | |
| 2 | s | | | | | |
| 3 | s | | | | | |
| 4 | s | | | | | |
| 5 | s | | | | | |
| 6 | s | | | | | |
| 7 | s | | | | | |
| 8 | s | | | | | |
| 9 | s | | | | | |
| 10 | s | | | | | |
| 11 | s | | | | | |
| 12 | s | | | | | |

*Shore wind. 4 hours
on fore part of ship
from the N. by E. by
the N. by E. by the N. by
the N. by E. by the N. by
the N. by E. by the N. by*

2037

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 157 | 115 | 1.01 | 95 | 75.22 | 75.22 | 17 | 1.38 | 10.05 | 10.31 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | s | | | | | |
| 2 | s | | | | | |
| 3 | s | | | | | |
| 4 | s | | | | | |
| 5 | s | | | | | |
| 6 | s | | | | | |
| 7 | s | | | | | |
| 8 | s | | | | | |
| 9 | s | | | | | |
| 10 | s | | | | | |
| 11 | s | | | | | |
| 12 | s | | | | | |
| 1 | s | | | | | |
| 2 | s | | | | | |
| 3 | s | | | | | |
| 4 | s | | | | | |
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| 7 | s | | | | | |
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| 9 | s | | | | | |
| 10 | s | | | | | |
| 11 | s | | | | | |
| 12 | s | | | | | |

*Shore 24 hours from the
N. by E. by the N. by
the N. by E. by the N. by
the N. by E. by the N. by
the N. by E. by the N. by*

2156

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 157 | 111 | 1.05 | 100 | 2.21 | 2.21 | 17 | 1.43 | 11.46 | 12.15 |

88

Chlorine

| Course. | Dist. | Diff. Lat. | Long. | Lat. by O. R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
|------------|-------|------------|-------|---------------|-------------|-------|-------------|-----------|--------------|
| N 56 1/2 W | 9.9 | 51 | 28 | 10 45 | 11.41 | 16 | 1.18 | 79.32 | 18.13 |

1. *Fig. Cat*
from Manila

| H. | K. | H. K. | Courses. | Wind. | Lee | Remarks. |
|----|----|-------|----------|-------|-----|--|
| | | | | | | <i>See Friday Feb 21st 1840</i> |

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24 40

| Course. | Dist. | Dir. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. dir. | Long. by C. |
|---------|-------|-----------|------|---------------|-------------|--------|-------------|------------|-------------|
| 75511 | 14 | 54 | 77 | 2.41 | 2.45 | 15 | 1.18 | 15.51 | 15.66 |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|--|
| | | | | | | <i>In Light Bay Feb 22nd 1871</i> |

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| 10 | / |
| 11 | / |
| 12 | / |

9519

| Course. | Dist. | Dif. Lat. | Dep. | Lat. by D. Lat. | Lat. by Ob. | Var. | Dif. Long. | Long. in. | Long by Ob. |
|---------|-------|-----------|------|-----------------|-------------|------|------------|-----------|-------------|
| 2655117 | 79 | 43 | 65 | 8.56 | 8.56 | 25 | 1.00 | 16.50 | 18.00 |

12 Day, out

Ship Steam from *Minuta* towards *Salem*

H. K. H.K. Courses. Winds. Lee. Remarks. *On arrival Feb 23. 1840*

| | | | | | | | | | | |
|----|---|---|--|--|--|--|--|--|--|--|
| 1 | 3 | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | |
| 5 | 2 | 1 | | | | | | | | |
| 6 | 2 | 1 | | | | | | | | |
| 7 | 2 | 1 | | | | | | | | |
| 8 | 2 | 1 | | | | | | | | |
| 9 | 2 | 1 | | | | | | | | |
| 10 | 2 | 1 | | | | | | | | |
| 11 | 2 | 1 | | | | | | | | |
| 12 | 3 | 1 | | | | | | | | |
| 1 | 2 | 1 | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | |
| 4 | 3 | | | | | | | | | |
| 5 | 2 | 1 | | | | | | | | |
| 6 | 3 | | | | | | | | | |
| 7 | 3 | | | | | | | | | |
| 8 | 3 | | | | | | | | | |
| 9 | 3 | | | | | | | | | |
| 10 | 3 | | | | | | | | | |
| 11 | 3 | | | | | | | | | |
| 12 | 3 | | | | | | | | | |

This day continues fine weather with light breeze from N.W.

Harrah for Mr. Adams

| | | | |
|-------|---------|-----------|---------|
| Dist. | Time | Dist. | Time |
| 22.35 | 8 36.00 | 112 27.30 | 8 36.55 |
| 18.42 | 48.00 | 112 27.30 | 42.30 |
| 17.28 | 58.55 | 7.30 | 52.38 |
| 14.11 | 9 12.50 | 4.15 | 57.00 |
| 11.15 | 21.35 | | |
| 7.07 | 35.20 | 112 00.45 | 7 04.17 |
| | | 111 58.38 | 7.52 |
| | | 56.00 | 16.13 |
| | | 54.45 | 23.10 |

| | | | | | | | | | |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| 42 | 87 | 44 | 57 | 8.12 | 8.14 | 14 | 52 | 17.48 | 18.56 |

H. K. H.K. Courses. Winds. Lee. Remarks. *On arrival Feb 24. 1840*

| | | | | | | | | | | |
|----|---|---|--|--|--|--|--|--|--|--|
| 1 | 3 | | | | | | | | | |
| 2 | 2 | | | | | | | | | |
| 3 | 3 | | | | | | | | | |
| 4 | 2 | | | | | | | | | |
| 5 | 3 | | | | | | | | | |
| 6 | 2 | 1 | | | | | | | | |
| 7 | 3 | 1 | | | | | | | | |
| 8 | 3 | 1 | | | | | | | | |
| 9 | 4 | 1 | | | | | | | | |
| 10 | 5 | | | | | | | | | |
| 11 | 5 | | | | | | | | | |
| 12 | 5 | | | | | | | | | |
| 1 | 3 | | | | | | | | | |
| 2 | 3 | | | | | | | | | |
| 3 | 3 | | | | | | | | | |
| 4 | 3 | | | | | | | | | |
| 5 | 3 | | | | | | | | | |
| 6 | 4 | 1 | | | | | | | | |
| 7 | 5 | | | | | | | | | |
| 8 | 5 | | | | | | | | | |
| 9 | 4 | 1 | | | | | | | | |
| 10 | 5 | | | | | | | | | |
| 11 | 5 | | | | | | | | | |
| 12 | 5 | | | | | | | | | |

Continued fine weather

*At 10 AM Letter from time
arrived from the
Hatch on the 10th showing
fasting spars, plankton
the paper by boat, packing
happening on the 10th.*

*One's fine fingers and
Good Weather*

| | | | | | | | | | |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
| 148 11 | 112 | 1.14 | 83 | 7.00 | 7.04 | 14 | 124 | 18.02 | 1.26 |

Ship St Helena of Salem
 Ship St. Anne from *Hamia* towards *Salem*

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------------------------------|
| 1 | 5 | | | | | Can Tons 25 1/2 |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | Finest and good breezes and |
| 5 | 5 | 1 | | | | pleasant weather |
| 6 | 5 | 1 | | | | |
| 7 | 5 | 1 | | | | Red, 1/2 m. 1/2 m. 1/2 m. 1/2 m. |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | 1 | | | | Spoke in large faintly |
| 2 | 5 | 1 | | | | up of long boat & nothing |
| 3 | 5 | 1 | | | | in chasing ear |
| 4 | 5 | 1 | | | | Hull down |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | 1 | | | | |
| 12 | 5 | 1 | | | | |

2.23

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|-------------|
| 45 W | 125 | 130 | 57 | 5.34 | 5.38 | 12 | 125 | 2060 | 2228 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|----|----|-------|----------|--------|-----|----------|
|----|----|-------|----------|--------|-----|----------|

| | | | | | | |
|----|---|--|--|--|--|-----------------|
| 1 | 5 | | | | | Can Tons 25 1/2 |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
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| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

9939

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|-------------|
| 45 W | 116 | 122 | 50 | 4.14 | 4.19 | 11 | 122 | 2202 | 2418 |

by 96 Days out

Ship *Storiot* from *Manila* towards *Salon*

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|------------|-----------|------|---|
| 1 | 4 | 1 | <i>1/2</i> | <i>SE</i> | | <i>In Thursday 27th 1840</i> <i>Ship 24 guns, crew 100</i> <i>Line Master 3rd class</i> <i>employe putting on board</i> <i>my gear for preparing mail</i> <i>and have, with off duty</i> |
| 2 | 4 | 1 | | | | |
| 3 | 4 | 1 | | | | |
| 4 | 4 | 1 | | | | |
| 5 | 4 | 1 | | | | |
| 6 | 4 | 1 | | | | |
| 7 | 4 | 1 | | | | |
| 8 | 4 | 1 | | | | |
| 9 | 4 | 1 | | | | |
| 10 | 4 | 1 | | | | |
| 11 | 4 | 1 | | | | |
| 12 | 4 | 1 | | | | |

| Course. | Dist. | Dir. lat. | Dir. | Lat. by D. R. | Lat. by Ob. | Varia. | Dir. Long. | Long. in. | Long. by Ob. |
|------------|------------|------------|-----------|---------------|-------------|-----------|------------|-------------|--------------|
| <i>1/2</i> | <i>115</i> | <i>123</i> | <i>SE</i> | <i>2.54</i> | <i>2.55</i> | <i>10</i> | <i>120</i> | <i>2522</i> | <i>26.24</i> |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|------------|-----------|------|---|
| 1 | 4 | 1 | <i>1/2</i> | <i>SE</i> | | <i>In Friday 28th 1840</i> <i>Ship 24 guns, crew 100</i> <i>Line Master 3rd class</i> <i>employe putting on board</i> <i>my gear for preparing mail</i> <i>and have, with off duty</i> |
| 2 | 4 | 1 | | | | |
| 3 | 4 | 1 | | | | |
| 4 | 4 | 1 | | | | |
| 5 | 4 | 1 | | | | |
| 6 | 4 | 1 | | | | |
| 7 | 4 | 1 | | | | |
| 8 | 4 | 1 | | | | |
| 9 | 4 | 1 | | | | |
| 10 | 4 | 1 | | | | |
| 11 | 4 | 1 | | | | |
| 12 | 4 | 1 | | | | |

| Course. | Dist. | Dir. lat. | Dir. | Lat. by D. R. | Lat. by Ob. | Varia. | Dir. Long. | Long. in. | Long. by Ob. |
|------------|------------|-------------|-----------|---------------|-------------|-----------|-------------|-------------|--------------|
| <i>1/2</i> | <i>104</i> | <i>1.29</i> | <i>SE</i> | <i>1.29</i> | <i>1.30</i> | <i>10</i> | <i>1.09</i> | <i>2320</i> | <i>27.15</i> |

98 Dec 1840

Ship *St Paul* from *Manila* towards *Salem*

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. | On Saturday Feb 28 1840 |
|---------|----|-------|----------|--------|-----|-------------------------------|-------------------------|
| 1 | 1 | | W | | | Throughout the 24 hours | |
| 2 | 1 | | W | | | good breezes and fine weather | |
| 3 | 1 | | W | | | All hands employed at day | |
| 4 | 1 | | W | | | | |
| 5 | 1 | | W | | | | |
| 6 | 1 | | W | | | | |
| 7 | 1 | | W | | | | |
| 8 | 1 | | W | | | | |
| 9 | 1 | | W | | | | |
| 10 | 1 | | W | | | | |
| 11 | 1 | | W | | | | |
| 12 | 1 | | W | | | | |
| 1 | 1 | | W | | | | |
| 2 | 1 | | W | | | | |
| 3 | 1 | | W | | | | |
| 4 | 1 | | W | | | | |
| 5 | 1 | | W | | | | |
| 6 | 1 | | W | | | | |
| 7 | 1 | | W | | | | |
| 8 | 1 | | W | | | | |
| 9 | 1 | | W | | | | |
| 10 | 1 | | W | | | | |
| 11 | 1 | | W | | | | |
| 12 | 1 | | W | | | | |
| Course. | | | | | | | Dist. |
| 10.257 | | | | | | | 24.99 |
| | | | | | | | 83 |
| | | | | | | | 59 |
| | | | | | | | 17 |
| | | | | | | | 14 |
| | | | | | | | 10 |
| | | | | | | | 59 |
| | | | | | | | 24.2821 |

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. | On Sunday March 1 |
|---------|----|-------|----------|--------|-----|------------------------------|-------------------|
| 1 | 1 | | W | | | This day fine breezes and | |
| 2 | 1 | | W | | | pleasant off 5 P.M. | |
| 3 | 1 | | W | | | crossed the Equator 30 Days | |
| 4 | 1 | | W | | | from this hope to be in | |
| 5 | 1 | | W | | | late Salem. Go it any length | |
| 6 | 1 | | W | | | of fine birds and | |
| 7 | 1 | | W | | | etc. Taming birds to show | |
| 8 | 1 | | W | | | is along opposite high lat | |
| 9 | 1 | | W | | | | |
| 10 | 1 | | W | | | | |
| 11 | 1 | | W | | | | |
| 12 | 1 | | W | | | | |
| Course. | | | | | | | Dist. |
| 10.392 | | | | | | | 32.44 |
| | | | | | | | 135 |
| | | | | | | | 1.54 |
| | | | | | | | 1.14 |
| | | | | | | | 44 |
| | | | | | | | 10 |
| | | | | | | | 1.12 |
| | | | | | | | 25.3429.53 |

1.00

High Water from Manila towards Saline

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|------------------------------|
| 1 | 5 | | North | | | In Monday March 24 |
| 2 | 5 | | | | | Strongest breeze 24 hours |
| 3 | 5 | | | | | good breeze and fine weather |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | all hands employed |
| 6 | 5 | | | | | variously |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

| Course | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 31° 10' | 105 | 1.39 | 59 | 3.38 | 333 | 8 | 1.00 | 26.58 | 31.27 |

| H. | K. | H.K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|------|----------|--------|------|---------------------|
| 1 | 5 | | North | | | In Tuesday March 25 |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |
| 1 | 5 | | | | | |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 5 | | | | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

| Course | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 42° 44' | 160 | 1.58 | 107 | 5.38 | 4.4 | 8 | 1.48 | 28.25 | 32.77 |

7.25 Log. Cu

1841/2/3/4/5/6/7/8/9/10/11/12

Ship *St. Paul* from *Manila* towards *Saigon*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|---------------|--------|------|---------------------------|
| 1 | 6 | | SE | | | On Wednesday March 1841 |
| 2 | 6 | | SE | | | |
| 3 | 6 | | SE | | | First part of the day and |
| 4 | 6 | | SE | | | cloudy Breeze W. by S. |
| 5 | 6 | | SE | | | |
| 6 | 6 | | SE | | | |
| 7 | 6 | | SE | | | |
| 8 | 6 | | SE | | | |
| 9 | 6 | | SE | | | Proceeding the ship in |
| 10 | 6 | | SE | | | |
| 11 | 6 | | SE | | | |
| 12 | 6 | | SE | | | |
| 1 | 6 | | SE | | | |
| 2 | 6 | | SE | | | |
| 3 | 6 | | SE | | | |
| 4 | 6 | | SE | | | |
| 5 | 6 | | SE | | | |
| 6 | 6 | | SE | | | |
| 7 | 6 | | SE | | | |
| 8 | 6 | | SE | | | |
| 9 | 6 | | SE | | | |
| 10 | 6 | | SE | | | |
| 11 | 6 | | SE | | | |
| 12 | 6 | | SE | | | |

St. Paul

132.55/84/638/135.30.52

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Obs. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|--------------|--------|-------------|-----------|--------------|
| SE | 132 | 1.4 | 70 | 6.43 | 6.58 | 15 | 1.5 | 135.3 | 135.21 |

10.808

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|---------------|--------|------|--------------------------------|
| 1 | 6 | | SE | | | On Thursday March 1841 |
| 2 | 6 | | SE | | | Commences this 24 hours strong |
| 3 | 6 | | SE | | | traze and good weather. |
| 4 | 6 | | SE | | | |
| 5 | 6 | | SE | | | |
| 6 | 6 | | SE | | | |
| 7 | 6 | | SE | | | |
| 8 | 6 | | SE | | | |
| 9 | 6 | | SE | | | |
| 10 | 6 | | SE | | | |
| 11 | 6 | | SE | | | |
| 12 | 6 | | SE | | | |
| 1 | 6 | | SE | | | |
| 2 | 6 | | SE | | | |
| 3 | 6 | | SE | | | |
| 4 | 6 | | SE | | | |
| 5 | 6 | | SE | | | |
| 6 | 6 | | SE | | | |
| 7 | 6 | | SE | | | |
| 8 | 6 | | SE | | | |
| 9 | 6 | | SE | | | |
| 10 | 6 | | SE | | | |
| 11 | 6 | | SE | | | |
| 12 | 6 | | SE | | | |

Commences this 24 hours strong
 traze and good weather.
 Proceeding the ship in
 the morning the ship is
 by the morning the ship is
 by the morning the ship is

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Obs. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|--------------|--------|-------------|-----------|--------------|
| SE | 132 | 1.5 | 70 | 8.38 | 8.52 | 15 | 1.5 | 137.3 | 137.27 |

10.201

104 Saigon

1.54 387

Ship's course from Manila towards Sulu

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------------------------|
| 1 | 6 | | SW | 8/25 | | Heavy rain, sea very rough |
| 2 | 6 | | | | | |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

1840

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 50.7 | 15.0 | 1.35 | 115 | 22.57.15 | 22.57.15 | 0 | 1.57 | 32.53.10 | 121.10 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------------------------|
| 1 | 6 | | | | | Bay of Sulu, sea with some |
| 2 | 6 | | | | | current, wind from S.W. |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

1840

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|------------|--------------|
| 83.0 | 15.0 | 1.42 | 102 | 11.17.00 | 11.17.00 | 0 | 1.44 | 35.31.41.7 | 121.17 |

111 pages

Ship's Boat from Manila towards Salome

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | 6 | 1 | 4 1/2 | | | |
| 2 | 6 | 1 | | | | |
| 3 | 6 | 1 | | | | |
| 4 | 6 | 1 | | | | |
| 5 | 6 | 1 | | | | |
| 6 | 6 | 1 | | | | |
| 7 | 6 | 1 | 9 3/4 | 5 1/2 | | |
| 8 | 6 | 1 | 10 1/2 | 5 1/2 | | |
| 9 | 6 | 1 | 11 1/2 | 5 1/2 | | |
| 10 | 6 | 1 | 12 1/2 | 5 1/2 | | |
| 11 | 6 | 1 | 13 1/2 | 5 1/2 | | |
| 12 | 6 | 1 | 14 1/2 | 5 1/2 | | |
| 1 | 6 | 1 | 17 3/4 | | | |
| 2 | 6 | 1 | | | | |
| 3 | 6 | 1 | 18 1/2 | 5 1/2 | | |
| 4 | 6 | 1 | 19 1/2 | 5 1/2 | | |
| 5 | 6 | 1 | 20 1/2 | 5 1/2 | | |
| 6 | 6 | 1 | 21 1/2 | 5 1/2 | | |
| 7 | 6 | 1 | 22 1/2 | 5 1/2 | | |
| 8 | 6 | 1 | 23 1/2 | 5 1/2 | | |
| 9 | 6 | 1 | 24 1/2 | 5 1/2 | | |
| 10 | 6 | 1 | 25 1/2 | 5 1/2 | | |
| 11 | 6 | 1 | | | | |
| 12 | 6 | 1 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Vega. | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|-------|-------------|----------|--------------|
| 13 1/2 | 139 | 1.52 | 1.5 | 15. 7 | 246 | 4 | 147 | 37.24 | |

11.455

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | 6 | 1 | 14 1/2 | | | |
| 2 | 6 | 1 | | | | |
| 3 | 6 | 1 | | | | |
| 4 | 6 | 1 | | | | |
| 5 | 6 | 1 | | | | |
| 6 | 6 | 1 | | | | |
| 7 | 6 | 1 | | | | |
| 8 | 6 | 1 | | | | |
| 9 | 6 | 1 | | | | |
| 10 | 6 | 1 | | | | |
| 11 | 6 | 1 | | | | |
| 12 | 6 | 1 | | | | |
| 1 | 6 | 1 | | | | |
| 2 | 6 | 1 | | | | |
| 3 | 6 | 1 | | | | |
| 4 | 6 | 1 | | | | |
| 5 | 6 | 1 | | | | |
| 6 | 6 | 1 | | | | |
| 7 | 6 | 1 | | | | |
| 8 | 6 | 1 | | | | |
| 9 | 6 | 1 | | | | |
| 10 | 6 | 1 | | | | |
| 11 | 6 | 1 | | | | |
| 12 | 6 | 1 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Vega. | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|-------|-------------|----------|--------------|
| 14 1/2 | 145 | 1.45 | 1.5 | 14. 31 | 142 | 4 | 141 | 38.05 | 147.05 |

11.598

10.000

Ship St. Paul from Manila towards Solor

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|---------------------------|
| 1 | 6 | | 12th | | | Commenced good breeze |
| 2 | 6 | | | | | in weather |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | 1 | | | | He took in all night sail |
| 8 | 6 | 1 | | | | at occasion required |
| 9 | 6 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |
| 1 | 8 | | | | | |
| 2 | 8 | | | | | |
| 3 | 8 | | | | | |
| 4 | 8 | | | | | |
| 5 | 8 | | | | | |
| 6 | 8 | | | | | |
| 7 | 8 | | | | | |
| 8 | 8 | | | | | |
| 9 | 8 | | | | | |
| 10 | 8 | | | | | |
| 11 | 8 | 1 | | | | |
| 12 | 8 | 1 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|--------------|
| 12th | 134 | 1.40 | 70 | 18.22 | 18.22 | 3 | 134 | 4058 | 16.33 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|-----------------------|
| 1 | 6 | | 12th | | | Commenced good breeze |
| 2 | 6 | | | | | in weather |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |
| 1 | 6 | | | | | |
| 2 | 6 | | | | | |
| 3 | 6 | | | | | |
| 4 | 6 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | |
| 9 | 6 | | | | | |
| 10 | 6 | 1 | | | | |
| 11 | 6 | 1 | | | | |
| 12 | 6 | 1 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|----------|--------------|
| 12th | 145 | 1.45 | 77 | 18.12 | 18.03 | 3 | 141 | 42.21 | 18.27 |

118 Days Out

Ship H. K. from N. towards S. E. 1840

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|-------|-------|----------|--------|------|-------------------------|
| 1 | 5 | 104 | 15 | | Commenced in heavy rain |
| 2 | 5 | | | | fine weather |
| 3 | 5 | | | | |
| 4 | 5 | | | | |
| 5 | 5 | | | | |
| 6 | 5 | | | | |
| 7 | 5 | | | | |
| 8 | 5 | | | | |
| 9 | 5 | | | | |
| 10 | 5 | | | | |
| 11 | 5 | | | | |
| 12 | 5 | | | | |
| 1 | 5 | | | | |
| 2 | 5 | | | | |
| 3 | 5 | | | | |
| 4 | 5 | | | | |
| 5 | 5 | | | | |
| 6 | 5 | | | | |
| 7 | 5 | | | | |
| 8 | 5 | | | | |
| 9 | 5 | | | | |
| 10 | 5 | | | | |
| 11 | 5 | | | | |
| 12 | 5 | | | | |

11. 867
17

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 104 | 15 | 137 | 87 | 1940 | 1840 | 2 | 132 | 33.53 | 50.00 |

Ship H. K. from N. towards S. E. 1840

| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|-------|-------|----------|--------|------|-------------------------|
| 1 | 5 | 104 | 15 | | Commenced in heavy rain |
| 2 | 5 | | | | fine weather |
| 3 | 5 | | | | |
| 4 | 5 | | | | |
| 5 | 5 | | | | |
| 6 | 5 | | | | |
| 7 | 5 | | | | |
| 8 | 5 | | | | |
| 9 | 5 | | | | |
| 10 | 5 | | | | |
| 11 | 5 | | | | |
| 12 | 5 | | | | |
| 1 | 5 | | | | |
| 2 | 5 | | | | |
| 3 | 5 | | | | |
| 4 | 5 | | | | |
| 5 | 5 | | | | |
| 6 | 5 | | | | |
| 7 | 5 | | | | |
| 8 | 5 | | | | |
| 9 | 5 | | | | |
| 10 | 5 | | | | |
| 11 | 5 | | | | |
| 12 | 5 | | | | |

12.046

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 104 | 15 | 151 | 92 | 21.31 | 21.3 | 2 | 128 | 35.21 | 51.42 |

112 Ship C. W. S.

Ship *Paul* from *Manila* towards *Salem*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|---|
| 1 | 4 | | | | | Commenced light, fine and fine clear weather |
| 2 | 4 | | | | | |
| 3 | 4 | | | | | |
| 4 | 4 | | | | | |
| 5 | 4 | | | | | |
| 6 | 4 | | | | | |
| 7 | 4 | | | | | At 10 the first wind light |
| 8 | 4 | | | | | good weather |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | |
| 1 | 1 | | | | | |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | 1 | | | | | |
| 6 | 1 | | | | | |
| 7 | 1 | | | | | |
| 8 | 2 | | | | | |
| 9 | 2 | | | | | |
| 10 | 2 | | | | | |
| 11 | 2 | | | | | |
| 12 | 2 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|-------|-------------|-----------|--------------|
| 11 44 | 70 | 57 | 42 | 22 28 | 22 30 | 2 | 147 | 46 05 | 52 55 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|---|
| 1 | 2 | | | | | Commenced rain, heavy and foggy, the ship, etc. passed the Cape. Continuing ship came |
| 2 | 2 | | | | | |
| 3 | 2 | | | | | |
| 4 | 2 | | | | | |
| 5 | 3 | | | | | |
| 6 | 2 | | | | | |
| 7 | 2 | | | | | |
| 8 | 1 | 1 | | | | * At 10.00 245 7 4420 29.18.15 245.35 |
| 9 | 1 | 1 | | | | 20.25 9.38.47 8247.5748 2215 50.10 |
| 10 | 1 | 1 | | | | 1156 101638 78501018.20 2200 50.10 |
| 11 | 1 | 1 | | | | 1156 101638 78501018.20 25.41 51.17 |
| 12 | 1 | 1 | | | | 5.03 72.08 16.34 50.55 26.15 15.08 |

| | | | | | | |
|----|---|--|--|--|--|--|
| 1 | 3 | | | | | |
| 2 | 4 | | | | | |
| 3 | 4 | | | | | |
| 4 | 3 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | | | | |
| 7 | 1 | | | | | |
| 8 | 2 | | | | | |
| 9 | 2 | | | | | |
| 10 | 1 | | | | | |
| 11 | 2 | | | | | |
| 12 | 3 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Vari. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| 11 44 | 45 | 37 | 25 | 23.10 | 23.06 | 4 | 27 | 46 35 | |

114 Days

Ship Steamer from Manila towards Teloron

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|--------------------------------|
| 1 | 5 | 1 | | | | Commenced fresh breeze again a |
| 2 | 5 | 1 | | | | heavy small swell the other |
| 3 | 5 | 1 | | | | |
| 4 | 5 | 1 | | | | At 2 P.M. a S.W. S.W. wind |
| 5 | 5 | 1 | | | | from the quarter with a |
| 6 | 5 | 1 | | | | strong spring breeze |
| 7 | 5 | 1 | | | | with a |
| 8 | 5 | 1 | | | | 49. Fair for the first |
| 9 | 5 | 1 | | | | John went to get a |
| 10 | 5 | 1 | | | | |
| 11 | 5 | 1 | | | | |
| 12 | 5 | 1 | | | | |
| 1 | 5 | 1 | | | | morning the same as before |
| 2 | 5 | 1 | | | | with a in sight |
| 3 | 5 | 1 | | | | |
| 4 | 5 | 1 | | | | |
| 5 | 5 | 1 | | | | Lat. 6.40 N. Long. 121.25 E. |
| 6 | 5 | 1 | | | | |
| 7 | 5 | 1 | | | | |
| 8 | 5 | 1 | | | | |
| 9 | 5 | 1 | | | | |
| 10 | 5 | 1 | | | | |
| 11 | 5 | 1 | | | | |
| 12 | 5 | 1 | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|--------|-------------|-----------|--------------|
| 12.237 | 142.7 | 27 | 50 | 44 | 23.56 | 24.00 | 48 | 121.25 | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|------------------------|
| 1 | 5 | 1 | | | | At 4 P.M. moderate and |
| 2 | 5 | 1 | | | | at 4 P.M. moderate |
| 3 | 5 | 1 | | | | and the wind |
| 4 | 5 | 1 | | | | and the wind |
| 5 | 5 | 1 | | | | and the wind |
| 6 | 5 | 1 | | | | and the wind |
| 7 | 5 | 1 | | | | and the wind |
| 8 | 5 | 1 | | | | and the wind |
| 9 | 5 | 1 | | | | and the wind |
| 10 | 5 | 1 | | | | and the wind |
| 11 | 5 | 1 | | | | and the wind |
| 12 | 5 | 1 | | | | and the wind |
| 1 | 5 | 1 | | | | and the wind |
| 2 | 5 | 1 | | | | and the wind |
| 3 | 5 | 1 | | | | and the wind |
| 4 | 5 | 1 | | | | and the wind |
| 5 | 5 | 1 | | | | and the wind |
| 6 | 5 | 1 | | | | and the wind |
| 7 | 5 | 1 | | | | and the wind |
| 8 | 5 | 1 | | | | and the wind |
| 9 | 5 | 1 | | | | and the wind |
| 10 | 5 | 1 | | | | and the wind |
| 11 | 5 | 1 | | | | and the wind |
| 12 | 5 | 1 | | | | and the wind |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|--------------|-------------|--------|-------------|-----------|--------------|
| 12275 | 135.1 | 38 | 51 | 22 | 24.33 | 24.21 | 50 | 121.55 | 54.52 |

11.2.1910

Ship *Ward* from *Harwich* towards *Salmon*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|-----------------------------|
| 1 | | | Calm | | | Throughout this day the |
| 2 | | | | | | weather was very |
| 3 | 1 | | | | | variable with calms |
| 4 | 1 | | | | | |
| 5 | 2 | | | | | |
| 6 | 2 | | | | | |
| 7 | 2 | | | | | Set sail on trip for Salmon |
| 8 | 2 | | | | | for the last time for |
| 9 | 1 | | | | | |
| 10 | 1 | | | | | |
| 11 | 1 | | | | | |
| 12 | 1 | | | | | |
| 1 | 1 | | | | | Current strong to the S.W. |
| 2 | 1 | | | | | |
| 3 | 1 | | | | | |
| 4 | 1 | | | | | |
| 5 | | | | | | |
| 6 | | | Calm | | | |
| 7 | | | | | | |
| 8 | 1 | | | | | |
| 9 | 2 | | | | | |
| 10 | 2 | | | | | |
| 11 | 1 | | | | | |
| 12 | 2 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 115 | 26 | 12 | 24 | 24.22 | 24.15 | 21 | 27 | 28 | 53.50 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|-----------------------------|
| 1 | 2 | | | | | Throughout this day the |
| 2 | 2 | | | | | weather was very |
| 3 | 2 | | | | | variable with calms |
| 4 | 2 | | | | | |
| 5 | 3 | | | | | Set sail on trip for Salmon |
| 6 | 3 | | | | | for the last time for |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | | | | | | Set sail on trip for Salmon |
| 10 | | | | | | for the last time for |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| 115 | 53 | 52 | 14 | 25.12 | 25.0 | 0 | 16 | 28.5 | 53.50 |

W.D. Jones

Ship *W. Hill* from *Manilla* towards *Savane*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |

12. 458

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Var. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|------|-------------|-----------|--------------|
| 150 | 55 | 15 | 11 | 22.1 | 22.5 | 5 | 103 | 4448 | 56.05 |

Ship *W. Hill* from *Manilla* towards *Savane*

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|-------|----------|--------|------|----------|
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |
| 1 | / | | | | | |
| 2 | / | | | | | |
| 3 | / | | | | | |
| 4 | / | | | | | |
| 5 | / | | | | | |
| 6 | / | | | | | |
| 7 | / | | | | | |
| 8 | / | | | | | |
| 9 | / | | | | | |
| 10 | / | | | | | |
| 11 | / | | | | | |
| 12 | / | | | | | |

12. 580

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Var. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|------|-------------|-----------|--------------|
| 118 | 14 | 12 | 27 | 28.19 | 28.25 | 5 | 19 | 49 | 55.36 |

12 Days out

Ship *St. Anne* from *Manila* towards *Solon*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| VSIW | 38 | 23 | 28 | 21.40 | | | 31 | 45.49 | 56.01 |

| H. | R. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|--------------|
| N 73 W | 46 | 14 | 44 | 26.56 | 26.56 | 3 | 48 | 50.38 | 56.58 |

122 Days out

Ship *St Paul* from *Manila* towards *Salem*

| H. | K. | H. K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|-------|----------|---------|------|--------------------------------|
| 1 | 5 | | SW by S | 18 E | | On Tuesday March 24 |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | Throughout this 24 hours good |
| 4 | 5 | | at W 73 | | | breeze, light, fair & variable |
| 5 | 5 | | | 157 alt | | |
| 6 | 5 | | | | | |
| 7 | 5 | | | | | Bye men down Deck and fitted |
| 8 | 5 | | at W 73 | | | Fore & Main Sheet Block stays |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | Went sick, deranged, having |
| 11 | 5 | | | | | fits |
| 12 | 5 | | | | | |
| 1 | 2 | | | | | |
| 2 | 2 | | | | | |
| 3 | 2 | | | | | |
| 4 | 2 | | | | | beginning set Starboard Stays |
| 5 | 2 | | | | | Sails |
| 6 | 4 | | | | | |
| 7 | 5 | | | | | |
| 8 | 5 | | | | | |
| 9 | 5 | | | | | |
| 10 | 5 | | | | | |
| 11 | 5 | | | | | |
| 12 | 5 | | | | | |

12. 782

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. B. | Lat. by Ob. | Long. by | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|----------|-------------|----------|--------------|
| 138 W | 103 | 121 | 63 | 28.17 | 27.53 | 29 | 111 | 51.49 | 57.39 |

| H. | K. | H. K. | Courses. | Winds. | Lec. | Remarks. |
|----|----|-------|----------|--------|------|-------------------------------------|
| 1 | 3 | | at W 73 | 18 E | | On Wednesday March 25. 1840 |
| 2 | 3 | | | | | |
| 3 | 3 | | | | | Commenced good breeze and fair |
| 4 | 3 | | | | | at 4.45 at 11 at Sail in sight stea |
| 5 | 3 | | | | | ding to the N. E |
| 6 | 3 | | | | | |
| 7 | 3 | | | | | at 8.30 at Starboard Stays Sails |
| 8 | 3 | | | | | at 9 in Starboard Stays Sails |
| 9 | 4 | | | | | |
| 10 | 4 | | | | | |
| 11 | 4 | | | | | |
| 12 | 4 | | | | | Middle and Lateral part |
| 1 | 5 | | | | | fine fresh breeze and good weather |
| 2 | 5 | | | | | |
| 3 | 5 | | | | | |
| 4 | 5 | | | | | |
| 5 | 6 | | | | | |
| 6 | 6 | | | | | |
| 7 | 6 | | | | | |
| 8 | 6 | | | | | Ends fine fine breeze and |
| 9 | 6 | | | | | good weather |
| 10 | 6 | | | | | |
| 11 | 6 | | | | | |
| 12 | 6 | | | | | |

12. 892

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. B. | Lat. by Ob. | Long. by | Diff. Long. | Long. in | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|----------|-------------|----------|--------------|
| 138 W | 114 | 128 | 65 | 29.24 | 29.22 | 2 | 1.14 | 55.03 | 59.00 |

124 Days out

Ship *W. Paul* from *Wanda* towards *Salon*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|-------------------------------|
| 1 | 7 | | 1130 | 16 | | Commenced heavy rain |
| 2 | 7 | 1 | | | | of Hagen's and red cloth rope |
| 3 | 7 | 1 | | | | of fore topmast stay same |
| 4 | 7 | | | | | relieved |
| 5 | 7 | | | | | |
| 6 | 7 | | | | | |
| 7 | 7 | | | | | |
| 8 | 7 | | | | | |
| 9 | 7 | | | | | |
| 10 | 7 | | | | | |
| 11 | 7 | | | | | |
| 12 | 7 | | | | | |
| 1 | 7 | | | | | |
| 2 | 7 | | | | | |
| 3 | 7 | | | | | |
| 4 | 7 | | | | | |
| 5 | 7 | | | | | |
| 6 | 7 | | | | | |
| 7 | 7 | | | | | |
| 8 | 7 | | | | | |
| 9 | 7 | | | | | |
| 10 | 7 | 1 | | | | |
| 11 | 7 | 1 | | | | |
| 12 | 7 | | | | | |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Diff. Long. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------------|------------------|
| N 37° W | 170 | 2.19 | 10.2 | 31. 41 | 31.38 | 3 | 158 57.01 160.47 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|--------------------------------|
| 1 | 7 | | NW 1/2 W | | | Commenced heavy rain and |
| 2 | 5 | | NW 1/2 W | | | thick weather at 11 PM very |
| 3 | 3 | | NW 1/2 W | | | heavy squall from NW |
| 4 | 3 | | NW 1/2 W | | | then reefed the topmast forest |
| 5 | 3 | | NW 1/2 W | | | then reefed the topmast forest |
| 6 | 3 | | NW 1/2 W | | | then reefed the topmast forest |
| 7 | 2 | | NW 1/2 W | | | then reefed the topmast forest |
| 8 | 2 | | NW 1/2 W | | | then reefed the topmast forest |
| 9 | 2 | | NW 1/2 W | | | then reefed the topmast forest |
| 10 | 2 | | NW 1/2 W | | | then reefed the topmast forest |
| 11 | 2 | | NW 1/2 W | | | then reefed the topmast forest |
| 12 | 2 | | NW 1/2 W | | | then reefed the topmast forest |
| 1 | 5 | | NW 1/2 W | | | then reefed the topmast forest |
| 2 | 2 | | NW 1/2 W | | | then reefed the topmast forest |
| 3 | 2 | | NW 1/2 W | | | then reefed the topmast forest |
| 4 | 1 | | NW 1/2 W | | | then reefed the topmast forest |
| 5 | 2 | 1 | NW 1/2 W | | | then reefed the topmast forest |
| 6 | 3 | | NW 1/2 W | | | then reefed the topmast forest |
| 7 | 3 | | NW 1/2 W | | | then reefed the topmast forest |
| 8 | 3 | | NW 1/2 W | | | then reefed the topmast forest |
| 9 | 4 | | NW 1/2 W | | | then reefed the topmast forest |
| 10 | 4 | | NW 1/2 W | | | then reefed the topmast forest |
| 11 | 4 | | NW 1/2 W | | | then reefed the topmast forest |
| 12 | 4 | | NW 1/2 W | | | then reefed the topmast forest |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|--------------|
| N 41° W | 63 | 4.1 | 4.1 | 32 25 | 32 38 | 2 | 49 | 57.50 51.15 |

129 Days Out

Ship *St. Paul* from *Salem* towards *Salem*

| H. K. | H. K. | Courses. | Wind. | Lee | Remarks. |
|-------|-------|----------|-------|-----|-----------------------------------|
| 1 | 6 | N 11 | W 11 | | Commenced Strong breeze & Cloudy |
| 2 | 3 | S 11 | W 11 | | At 10 off the Cape Bar, and |
| 3 | 3 | | | | made in the Cape Bar, and |
| 4 | 3 | | | | the strongest, the Gulf out, and |
| 5 | 6 | | | | in the Gulf, and up the Gulf, and |
| 6 | 6 | | | | in the Gulf, and up the Gulf, and |
| 7 | 6 | | | | in the Gulf, and up the Gulf, and |
| 8 | 6 | | | | in the Gulf, and up the Gulf, and |
| 9 | 6 | | | | in the Gulf, and up the Gulf, and |
| 10 | 6 | | | | in the Gulf, and up the Gulf, and |
| 11 | 6 | | | | in the Gulf, and up the Gulf, and |
| 12 | 6 | | | | in the Gulf, and up the Gulf, and |
| 1 | 6 | | | | in the Gulf, and up the Gulf, and |
| 2 | 6 | | | | in the Gulf, and up the Gulf, and |
| 3 | 6 | | | | in the Gulf, and up the Gulf, and |
| 4 | 6 | | | | in the Gulf, and up the Gulf, and |
| 5 | 6 | | | | in the Gulf, and up the Gulf, and |
| 6 | 6 | | | | in the Gulf, and up the Gulf, and |
| 7 | 6 | | | | in the Gulf, and up the Gulf, and |
| 8 | 6 | | | | in the Gulf, and up the Gulf, and |
| 9 | 6 | | | | in the Gulf, and up the Gulf, and |
| 10 | 6 | | | | in the Gulf, and up the Gulf, and |
| 11 | 6 | | | | in the Gulf, and up the Gulf, and |
| 12 | 6 | | | | in the Gulf, and up the Gulf, and |

13 225 *N 46 W* 120 124 87 34 03 33.54 2 144 59.33 23.27

| H. K. | H. K. | Courses. | Winds. | Lee | Remarks. |
|-------|-------|----------|--------|-----|------------------------------------|
| 1 | 6 | | | | Commenced good breeze & Cloudy all |
| 2 | 6 | | | | made in the Cape Bar, and |
| 3 | 6 | | | | At 4.2 off the Cape Bar, and |
| 4 | 6 | | | | in the Gulf, and up the Gulf, and |
| 5 | 6 | | | | in the Gulf, and up the Gulf, and |
| 6 | 6 | | | | in the Gulf, and up the Gulf, and |
| 7 | 6 | | | | in the Gulf, and up the Gulf, and |
| 8 | 6 | | | | in the Gulf, and up the Gulf, and |
| 9 | 6 | | | | in the Gulf, and up the Gulf, and |
| 10 | 6 | | | | in the Gulf, and up the Gulf, and |
| 11 | 6 | | | | in the Gulf, and up the Gulf, and |
| 12 | 6 | | | | in the Gulf, and up the Gulf, and |
| 1 | 6 | | | | in the Gulf, and up the Gulf, and |
| 2 | 6 | | | | in the Gulf, and up the Gulf, and |
| 3 | 6 | | | | in the Gulf, and up the Gulf, and |
| 4 | 6 | | | | in the Gulf, and up the Gulf, and |
| 5 | 6 | | | | in the Gulf, and up the Gulf, and |
| 6 | 6 | | | | in the Gulf, and up the Gulf, and |
| 7 | 6 | | | | in the Gulf, and up the Gulf, and |
| 8 | 6 | | | | in the Gulf, and up the Gulf, and |
| 9 | 6 | | | | in the Gulf, and up the Gulf, and |
| 10 | 6 | | | | in the Gulf, and up the Gulf, and |
| 11 | 6 | | | | in the Gulf, and up the Gulf, and |
| 12 | 6 | | | | in the Gulf, and up the Gulf, and |

13 345 *N 48* 120 120 8.9 35 14 35.15 3 148 24.22 5.34

128 Days Out

Ship *St Paul* from *Manila* towards *Samar*

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|--------------------------------------|
| 1 | 2 | | | | | Commenced light breeze from |
| 2 | 2 | | | | | South by East |
| 3 | 3 | | | | | Light breeze |
| 4 | 3 | | | | | At 4 P.M. Breeze from South by East |
| 5 | 3 | | | | | At 5 P.M. Breeze from South by East |
| 6 | 3 | | | | | At 6 P.M. Breeze from South by East |
| 7 | 4 | 1 | | | | At 7 P.M. Breeze from South by East |
| 8 | 4 | 1 | | | | At 8 P.M. Breeze from South by East |
| 9 | 4 | 1 | | | | At 9 P.M. Breeze from South by East |
| 10 | 4 | 1 | | | | At 10 P.M. Breeze from South by East |
| 11 | 4 | 1 | | | | At 11 P.M. Breeze from South by East |
| 12 | 4 | 1 | | | | At 12 P.M. Breeze from South by East |
| 1 | 4 | 1 | | | | At 1 P.M. Breeze from South by East |
| 2 | 4 | 1 | | | | At 2 P.M. Breeze from South by East |
| 3 | 4 | 1 | | | | At 3 P.M. Breeze from South by East |
| 4 | 4 | 1 | | | | At 4 P.M. Breeze from South by East |
| 5 | 4 | 1 | | | | At 5 P.M. Breeze from South by East |
| 6 | 4 | 1 | | | | At 6 P.M. Breeze from South by East |
| 7 | 4 | 1 | | | | At 7 P.M. Breeze from South by East |
| 8 | 4 | 1 | | | | At 8 P.M. Breeze from South by East |
| 9 | 4 | 1 | | | | At 9 P.M. Breeze from South by East |
| 10 | 4 | 1 | | | | At 10 P.M. Breeze from South by East |
| 11 | 4 | 1 | | | | At 11 P.M. Breeze from South by East |
| 12 | 4 | 1 | | | | At 12 P.M. Breeze from South by East |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Area. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| 112 | 112 | 128 | 30 | 95.44 | 36.40 | 4 | 1.27 | 12.57 | 87.03 |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|--------------------------------------|
| 1 | 5 | | | | | Commenced light breeze from |
| 2 | 5 | | | | | South by East |
| 3 | 5 | | | | | Light breeze |
| 4 | 5 | | | | | At 4 P.M. Breeze from South by East |
| 5 | 5 | | | | | At 5 P.M. Breeze from South by East |
| 6 | 5 | | | | | At 6 P.M. Breeze from South by East |
| 7 | 5 | | | | | At 7 P.M. Breeze from South by East |
| 8 | 5 | | | | | At 8 P.M. Breeze from South by East |
| 9 | 5 | | | | | At 9 P.M. Breeze from South by East |
| 10 | 5 | | | | | At 10 P.M. Breeze from South by East |
| 11 | 5 | | | | | At 11 P.M. Breeze from South by East |
| 12 | 5 | | | | | At 12 P.M. Breeze from South by East |
| 1 | 5 | | | | | At 1 P.M. Breeze from South by East |
| 2 | 5 | | | | | At 2 P.M. Breeze from South by East |
| 3 | 5 | | | | | At 3 P.M. Breeze from South by East |
| 4 | 5 | | | | | At 4 P.M. Breeze from South by East |
| 5 | 5 | | | | | At 5 P.M. Breeze from South by East |
| 6 | 5 | | | | | At 6 P.M. Breeze from South by East |
| 7 | 5 | | | | | At 7 P.M. Breeze from South by East |
| 8 | 5 | | | | | At 8 P.M. Breeze from South by East |
| 9 | 5 | | | | | At 9 P.M. Breeze from South by East |
| 10 | 5 | | | | | At 10 P.M. Breeze from South by East |
| 11 | 5 | | | | | At 11 P.M. Breeze from South by East |
| 12 | 5 | | | | | At 12 P.M. Breeze from South by East |

| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Area. | Diff. Long. | Long. in. | Long. by Ob. |
|---------|-------|------------|------|---------------|-------------|-------|-------------|-----------|--------------|
| 112 | 112 | 128 | 30 | 95.44 | 36.40 | 4 | 1.27 | 12.57 | 87.03 |

13 Days out

Ship *Albatross* from *Manila* towards *Sulu*

| H. | K. | H. K. | Courses. | Wind. | Lee | Remarks. |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
|---------|-------|------------|------|---------------|-------------|--------|-------------|-----------|-------------|
| | 18 | | | | 17.37 | | | | 17.53 |

13270

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
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| Course. | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. |
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| H. K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
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| 3 | 2 | 1 | do | | at 11 AM. 1/2 S. by E. and |
| 4 | 2 | 1 | do | | at 11 AM. 1/2 S. by E. and |
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| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
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| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. |
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Jan 13 1840

Memorandum that 2nd of Jan 1840 25 45 21. 03 10

| From | | | towards | | | | | | | | |
|---------|----|----|----------|------------|------|------------------|-------------|--------|-------------|-----------|--------------|
| H. | K. | 2. | Courses. | Winds. | Lee. | Remarks. | | | | | |
| 1 | 1 | 1 | 19.00 | | | 1st of Jan 1840 | | | | | |
| 2 | 1 | 00 | 20.51 | | | 2nd of Jan 1840 | | | | | |
| 3 | 3 | 38 | 21.11 | | | 3rd of Jan 1840 | | | | | |
| 4 | 2 | 37 | 21.33 | | | 4th of Jan 1840 | | | | | |
| 5 | 1 | 54 | 22.23 | | | 5th of Jan 1840 | | | | | |
| 6 | 1 | 54 | 22.48 | | | 6th of Jan 1840 | | | | | |
| 7 | 1 | 54 | 22.48 | | | 7th of Jan 1840 | | | | | |
| 8 | 1 | 54 | 22.48 | | | 8th of Jan 1840 | | | | | |
| 9 | 1 | 54 | 22.48 | | | 9th of Jan 1840 | | | | | |
| 10 | 1 | 54 | 22.48 | | | 10th of Jan 1840 | | | | | |
| 11 | 1 | 54 | 22.48 | | | 11th of Jan 1840 | | | | | |
| 12 | 1 | 54 | 22.48 | | | 12th of Jan 1840 | | | | | |
| 1 | 1 | 54 | 22.48 | | | 1st of Jan 1840 | | | | | |
| 2 | 1 | 54 | 22.48 | | | 2nd of Jan 1840 | | | | | |
| 3 | 1 | 54 | 22.48 | | | 3rd of Jan 1840 | | | | | |
| 4 | 1 | 54 | 22.48 | | | 4th of Jan 1840 | | | | | |
| 5 | 1 | 54 | 22.48 | | | 5th of Jan 1840 | | | | | |
| 6 | 1 | 54 | 22.48 | | | 6th of Jan 1840 | | | | | |
| 7 | 1 | 54 | 22.48 | | | 7th of Jan 1840 | | | | | |
| 8 | 1 | 54 | 22.48 | | | 8th of Jan 1840 | | | | | |
| 9 | 1 | 54 | 22.48 | | | 9th of Jan 1840 | | | | | |
| 10 | 1 | 54 | 22.48 | | | 10th of Jan 1840 | | | | | |
| 11 | 1 | 54 | 22.48 | | | 11th of Jan 1840 | | | | | |
| 12 | 1 | 54 | 22.48 | | | 12th of Jan 1840 | | | | | |
| Course. | | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. |
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| H. K. | H. K. | Courses. | Winds. | Lee. | Remarks. | | | | | | |
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| 1 | 1 | 19.00 | | | 1st of Jan 1840 | | | | | | |
| 2 | 1 | 00 | | | 2nd of Jan 1840 | | | | | | |
| 3 | 3 | 38 | | | 3rd of Jan 1840 | | | | | | |
| 4 | 2 | 37 | | | 4th of Jan 1840 | | | | | | |
| 5 | 1 | 54 | | | 5th of Jan 1840 | | | | | | |
| 6 | 1 | 54 | | | 6th of Jan 1840 | | | | | | |
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| 8 | 1 | 54 | | | 8th of Jan 1840 | | | | | | |
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| 11 | 1 | 54 | | | 11th of Jan 1840 | | | | | | |
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| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | |
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| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. | | | |
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| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. |
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| H. | K. | H. K. | Compses. | Winds. | Lee. | Remarks. |
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| H. | K. | H.K. | Courses. | Winds. | Ecc. | Remarks. |
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Brig Lelia from Lima towards Lima

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | (in four days March 10 th) | | | | |
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| 1 | / | / | an | SE | | Commenced with these winds | | | | | |
| 2 | / | / | | | | and a heavy sea running | | | | | |
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| 4 | / | / | | | | | | | | | |
| 5 | / | / | SW | SE | | Brig in sight steering | | | | | |
| 6 | / | / | | | | to the N. 40° W. | | | | | |
| 7 | / | / | | | | | | | | | |
| 8 | / | / | | | | at 2 P.M. shot a reel out | | | | | |
| 9 | / | / | | | | of the log and set the | | | | | |
| 10 | / | / | | | | spiral line | | | | | |
| 11 | / | / | | | | | | | | | |
| 12 | / | / | | | | At 3 set the mast line and | | | | | |
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| 3 | / | / | | | | | | | | | |
| 4 | / | / | | | | | | | | | |
| 5 | / | / | | | | | | | | | |
| 6 | / | / | | | | put down the log and | | | | | |
| 7 | / | / | | | | hauled and obtained the | | | | | |
| 8 | / | / | | | | weight and obtained the | | | | | |
| 9 | / | / | an | SW | | weight and obtained the | | | | | |
| 10 | / | / | | | | weight and obtained the | | | | | |
| 11 | / | / | an | SE | | weight and obtained the | | | | | |
| 12 | / | / | | | | weight and obtained the | | | | | |
| Course. | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | |
| | | | | | 30.13 | | | | | 6824 | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | (in five days March 11 th 1842) | | | | |
|---------|----|-------|------------|--------|---------------|----------------------------|--|-------------|-----------|--------------|--|
| 1 | / | / | SW | SE | | Commenced with these winds | | | | | |
| 2 | / | / | | | | and good weather | | | | | |
| 3 | / | / | | | | | | | | | |
| 4 | / | / | | | | | | | | | |
| 5 | / | / | | | | | | | | | |
| 6 | / | / | | | | | | | | | |
| 7 | / | / | | | | | | | | | |
| 8 | / | / | SW | SE | | Middle sea & strong | | | | | |
| 9 | / | / | | | | runs and pleasant | | | | | |
| 10 | / | / | | | | | | | | | |
| 11 | / | / | | | | | | | | | |
| 12 | / | / | | | | | | | | | |
| 1 | / | / | SW | SE | | At 2 P.M. made sail | | | | | |
| 2 | / | / | | | | the topsails and took | | | | | |
| 3 | / | / | | | | in chain for 2 miles | | | | | |
| 4 | / | / | | | | and | | | | | |
| 5 | / | / | | | | | | | | | |
| 6 | / | / | | | | | | | | | |
| 7 | / | / | | | | | | | | | |
| 8 | / | / | | | | | | | | | |
| 9 | / | / | | | | | | | | | |
| 10 | / | / | | | | | | | | | |
| 11 | / | / | | | | | | | | | |
| 12 | / | / | | | | | | | | | |
| Course. | | Dist. | Diff. lat. | Dep. | Lat. by D. R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | |
| | | | | | | 32.29 | | | | 6813 | |

54 Days from Lima

Brig Polla from Zanzibar towards Salem

| H. K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|-------|------|----------|--------|------|----------------------------|
| 1 | 2 | | | | On Saturday March 12. 1842 |
| 3 | 3 | | | | |
| 4 | 4 | | | | |
| 5 | 6 | | | | |
| 6 | 6 | | | | |
| 7 | 6 | | | | |
| 8 | 6 | | | | |
| 9 | 6 | | | | |
| 10 | 6 | | | | |
| 11 | 6 | | | | |
| 12 | 6 | | | | |
| 1 | 6 | | | | |
| 2 | 6 | | | | |
| 3 | 6 | | | | |
| 4 | 6 | | | | |
| 5 | 6 | | | | |
| 6 | 6 | | | | |
| 7 | 6 | | | | |
| 8 | 6 | | | | |
| 9 | 6 | | | | |
| 10 | 6 | | | | |
| 11 | 6 | | | | |
| 12 | 6 | | | | |

| H. | K. | H.K. | Courses. | Winds. | Lee. | Remarks. |
|----|----|------|----------|--------|------|---------------------------------|
| 1 | 2 | 1 | WZG | North | | Comes in with strong gales and |
| 2 | 2 | 1 | | | | cool weather with dipping |
| 3 | 2 | 1 | | | | Squalls of Rain |
| 4 | 2 | 1 | WZG | | | At 8 PM let the Foresail |
| 5 | 2 | 1 | | | | and turned two reefs out of the |
| 6 | 2 | 1 | | | | topsails At 11 turned the reef |
| 7 | 2 | 1 | | | | out of the Foresail and set |
| 8 | 2 | 1 | WZG | | | the fore and mainsail |
| 9 | 2 | 1 | | | | Morning out all reef and |
| 10 | 3 | | | | | set off for East side |
| 11 | 3 | | | | | |
| 12 | 3 | | | | | |
| 1 | 2 | | | | | |
| 2 | 2 | | | | | |
| 3 | 1 | 1 | | | | |
| 4 | 1 | 1 | | | | |
| 5 | 2 | | | SE | | At 8 PM Bent the Foresail |
| 6 | 3 | | | | | and fore top Gall sail |
| 7 | 3 | | | | | |
| 8 | 3 | | | | | |
| 9 | 3 | | WZG | | | |
| 10 | 3 | | | SW | | |
| 11 | 5 | | | | | |
| 12 | 2 | | | | | |

86 Days Out

Thursday Aug 28th

Brix Rotta from Lanzibar towards Saloon

| H. | K. | H. K. | Courses. | Winds. | Lee | Remarks. | On Monday March 14 1842 | | | | | |
|---------|-------|------------|----------|--------------|-------------|---|-------------------------|-----------|--------------|--|--|--|
| 1 | ✓ | | | | | longer in with strong breezes | | | | | | |
| 2 | ✓ | | | | | and flying clouds At 4 P.M. | | | | | | |
| 3 | ✓ | | | | | reefed the foresail | | | | | | |
| 4 | ✓ | | | | | At 6 P.M. reefed the topsails and | | | | | | |
| 5 | ✓ | | | | | furled fore and mastsails | | | | | | |
| 6 | ✓ | | | | | At 10 P.M. reefed the fore topsail | | | | | | |
| 7 | ✓ | | | | | and furled the foresail | | | | | | |
| 8 | ✓ | | | | | At 11 P.M. furled the topsail and the | | | | | | |
| 9 | ✓ | | | | | reefed the main topsail | | | | | | |
| 10 | ✓ | | | | | the pleasure of a sailors life | | | | | | |
| 11 | ✓ | | | | | From 12 till 4 P.M. it rained | | | | | | |
| 12 | ✓ | | | | | in torrent and the wind was not | | | | | | |
| 1 | 2 | | | | | in our place 5 minutes at a time | | | | | | |
| 2 | 2 | | | | | for the first two hours and the yachts | | | | | | |
| 3 | 2 | | | | | were traced round 5 times and | | | | | | |
| 4 | 2 | | | | | gunning as fast as they could be loaded | | | | | | |
| 5 | 2 | | | | | at over heavy sea on and not wind | | | | | | |
| 6 | 2 | | | | | enough to blow by 4 and the old | | | | | | |
| 7 | 2 | | | | | 350 rolling the water over her rail | | | | | | |
| 8 | 2 | | | | | and were there being a constant | | | | | | |
| 9 | 2 | | | | | of the Gulf the Gulf - Start the Gulf | | | | | | |
| 10 | 3 | | | | | all was sure of a drubbing the | | | | | | |
| 11 | 3 | | | | | | | | | | | |
| 12 | 3 | | | | | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long. by Ob. | | | |
| | | | | | | 34.55 | | 7048 | | | | |

| H. | K. | H. K. | Courses. | Winds. | Lee. | Remarks. | On Tuesday March 15 1842 | | | | |
|---------|-------|------------|-------------|--------------|-------------|-------------------------------|--------------------------|-----------|-------------|--|--|
| 1 | 3 | | | | | longer in with fine breezes | | | | | |
| 2 | 3 | | | | | and clouds in east | | | | | |
| 3 | 4 | | | | | At 8 P.M. in fore sail half | | | | | |
| 4 | 4 | | | | | and furled main sail | | | | | |
| 5 | 4 | | | | | and close reefed the topsails | | | | | |
| 6 | 4 | | | | | | | | | | |
| 7 | 3 | | | | | At 12 P.M. furled foresail | | | | | |
| 8 | 3 | | | | | | | | | | |
| 9 | 3 | | | | | | | | | | |
| 10 | 3 | | | | 24 | | | | | | |
| 11 | 2 | 1 | sw by S | | | | | | | | |
| 12 | 2 | 1 | | | | | | | | | |
| 1 | 2 | 1 | | | 34 | At 2 A.M. wore ship | | | | | |
| 2 | 2 | 1 | | | | reefed and set the foresail | | | | | |
| 3 | 2 | 1 | W by N by E | | | and turned one reef out of | | | | | |
| 4 | 2 | 1 | | | | the main topsail | | | | | |
| 5 | 2 | 1 | | | | At 12 noon a big | | | | | |
| 6 | 2 | 1 | | | | trapped starting to the P.E. | | | | | |
| 7 | 3 | | | | | | | | | | |
| 8 | 3 | | | | | | | | | | |
| 9 | 3 | | | | | | | | | | |
| 10 | 3 | | | | | | | | | | |
| 11 | 3 | 1 | | | | | | | | | |
| 12 | 3 | 1 | | | | | | | | | |
| Course. | Dist. | Diff. lat. | Dep. | Lat. by D.R. | Lat. by Ob. | Varia. | Diff. Long. | Long. in. | Long by Ob. | | |
| | | | | | 35.57 | | | | 7148 | | |

88 Day Out



Spencer Museum

534450
20

44-30

5314-50

1515

1448

534553

1417

5825

12628

63114

9128

448

531500

1515

1300

534450

534410

531443

1615

1448

534848

514553

5828

1100

18

443

16

158210

530155

542055

11922

3558

105

109513/2

8294810

2531

990667

1803589

1010592

119658

890667

1103589

1034844

119658

